

<110> Steven M. Ruben, et al.

<120> 32 Human Secreted Proteins

<130> PZ006P1

<140> Unassigned

<141> 1998-11-10

<150> PCT/US98/10868

<151> May 28, 1998

<150> 60/044,039

<151> May 30, 1997

<150> 60/048,093

<151> May 30, 1997

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<151> May 30, 1997

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<150> 60/056,250

<151> August 29, 1997

<150> 60/056,296

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<160> 229

<170> PatentIn Ver. 2.0

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| aattcgaggg | tgcaccgtca | gtcttctctt | tcccccaaa | acccaaggac | accctcatga | 120 |
| tctcccgga | tcttgaggtc | acatgcgtgg | tggtggacgt | aagccacgaa | gaccctgagg | 180 |
| tcaagttcaa | ctggtacgtg | gacggcgtgg | aggtgcataa | tgccaagaca | aagccgcggg | 240 |
| aggagcagta | caacagcacg | taccgtgtgg | tcagcgtcct | caccgtcctg | caccaggact | 300 |
| ggctgaatgg | caaggagtac | aagtgcgaag | tctccaacaa | agccctccca | acccccatcg | 360 |
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| gaggggttcg | gggggttctgg | gcaggcacaa | tggcggtctcg | agcaggcccc | cgagcggccg | 120 |
| rcaccgacgc | agcgagcttt | cagcaccggg | agcgcgctcg | catgcactac | cagatgagtg | 180 |
| tgaccctcaa | gtatgaaatc | aagaagctga | tctacgtaca | tctggtcata | tggctgctgc | 240 |
| tgggttgctaa | gatgagcgtg | ggacacctga | ggctcttgtc | acatgatcag | gtggccatgc | 300 |
| cctatcagtg | ggaatacccc | tatttgctga | gcatttttgc | ctctctcttg | ggccttctct | 360 |
| cctttccccg | caacaacatt | agctaccttg | tgctctccat | gatcagcatg | ggactctttt | 420 |
| ccatcgctcc | actcatttat | ggcagcatgg | agatgttccc | tgctgcacag | ccttctaccg | 480 |
| ccatggcaag | gcctaccggt | tcctcttttg | ttttcttgcc | gtttccatca | tgtacctggg | 540 |
| gttgggtgtg | gcagtgcgaag | tgcatgcctg | gcagttgtac | tacagcaaga | agctcctaga | 600 |
| ctcttggttc | accagcacac | aggagaagaa | gcataaatga | agcctctttg | gggtgaagcc | 660 |
| tggacatccc | atcgaatgaa | aggacactag | tacagcggtt | ccaaaatccc | ttctgggtgat | 720 |
| tttagcagct | gtgatgttgg | tacctgggtc | agacccaggc | caaagtcttg | gaaagctcct | 780 |
| tttgccatct | gctgaggtgg | caaaactata | atattttcct | ggttggctag | aactgggtga | 840 |
| ccaacagcta | tgaacaaaat | ttcagctgtt | tgaagttgaa | ctttgaggtt | tttctttaag | 900 |
| aatgagcttc | gtccttgcc | ctactcgggtc | attctcccca | ttccatcca | ttacccctta | 960 |
| gccattgaga | ctaaaggaaa | tagggaataa | atcaaattac | ttcatctcta | ggtcacgggt | 1020 |
| caggaaaacat | ttgggcagct | gtccctttgg | cagctgtggt | ctcctctgca | aagcatttta | 1080 |
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| gagtggagtg | tccgctgtgc | ccgggcctgc | accatgagcg | tcccgccctt | catcgacatc | 120 |
| agtgaagaag | atcaggctgc | tgagcttctg | gcttatctga | aatctaaagg | agctgagatt | 180 |
| tcagaagaga | actcggaagg | tggacttcat | gttgatttag | ctcaaattat | tgaagcctgt | 240 |
| gatgtgtgtc | tgaaggagga | tgataaagat | gttgaaagtg | tgatgaacag | tgtggtatcc | 300 |
| ctactcttga | tccttgaacc | agacaagcaa | gaagctttga | ttgaaagcct | atgtgaaaag | 360 |
| ctgggtcaaat | ttcgcggaag | tgaacgcccc | tctctgagac | tgcagttggt | aagcaacctt | 420 |
| ttccacggga | tggataagaa | tactcctgta | agatacacag | tgtattgcag | ccttattaaa | 480 |
| gtggcagcat | cttgtggggc | catccagtac | atcccaactg | agctggatca | agttagaaaa | 540 |
| tggattttctg | actggaatct | caccactgaa | aaaaagcaca | cccttttaag | actactttat | 600 |
| gaggcacttg | tggattgtaa | gaagagtgat | gctgcttcaa | aagtcatggg | ggaattgctc | 660 |
| ggaagttaca | cagaggacaa | tgcttcccg | gctcgagttg | atgcccacag | gtgtattgta | 720 |
| cgagcattga | aagatccaaa | tgcatttctt | tttgaccacc | ttcttacttt | aaaaccagtc | 780 |
| aagttttttg | aaggcgagct | tattcatgat | cttttaacca | tttttgtag | tgctaaattg | 840 |
| gcatcatatg | tcaagtttta | tcagaataat | aaagacttca | ttgattcact | tggcctgtta | 900 |
| catgaacaga | atatggcaaa | aatgagacta | cttactttta | tgggaatggc | agtagaaaa | 960 |
| aaggaaaattt | cttttgacac | aatgcagcaa | gaacttcaga | ttggagctga | tgatgttgaa | 1020 |
| gcattttgtta | ttgacgccgt | agaactaaa | atggtctact | gcaaaattga | tcagaccag | 1080 |
| agaaaagtag | ttgtcagtc | tagcacacat | cggacatttg | gaaaacagca | gtggcaacaa | 1140 |
| ctgtatgaca | cacttaatgc | ctggaaacaa | aatctgaaca | aagtgaaaaa | cagccttttg | 1200 |
| agtctttctg | atacctgagt | ttttatgctt | ataatttttg | ttctttgaaa | aaaaagccct | 1260 |

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1310

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| gaccocacct | acacaggggc | attgacagac | tggagttgaa | agccgacgaa | ccgacacgcg | 360 |
| gcagagtcaa | taattcaata | aaaaagttac | gaactttctc | tgtaacctgg | gtttcaataa | 420 |
| ttatggattt | ttatgaaaac | ttgaaataat | aaaaagagaa | aaaaactatt | tcctatagct | 480 |
| agtcggaatg | caaacttttg | acgtcctgat | tgctccaggg | ccctctttcc | aactcagttc | 540 |
| cttggttttc | ctcttcctcc | tcctcctctt | cttctcctct | tccttctctt | nccccatggg | 600 |
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<212> DNA

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| ttttttaata | aaaagttata | tataattatc | cctttaatta | aaggagcaa | agggcggttc | 120 |
| cacatggaca | gaggcttggg | ccgaggcctg | gtcacagcag | cgagcatcca | gggtttgcag | 180 |
| ggacgatgtt | acagactctg | ttttctgcct | ggcgtttcac | ttgtgtctgc | tcctagcctg | 240 |
| tgctctgcca | gcagcacaga | catctgtccc | atcagacctc | ttccattttg | cacagggagt | 300 |
| gcaggaggtg | aatgttcaact | ttctgtttct | cagtgtcact | gttctgtttc | cacgggatgg | 360 |
| aaagcgcgat | ggcctgtgtc | cattgtagat | ttccttctag | atcttctgtg | acacacactt | 420 |
| gattgttctg | gatgaatgtc | ttttttaata | ctccgaaaat | ttcatcatct | aagaaaatga | 480 |
| ttccatacaa | ataactcagc | acacaagtga | cccaggacat | atgcctgcca | aagggatgtg | 540 |
| ttagaaggct | gccttctcat | gcgcattgtc | acttggatct | tgtggtgagg | acggcccat | 600 |
| ctttcttgcc | acagattgag | gccacttttg | agcaagggag | atcctggagt | taagacaggt | 660 |
| gttgggggca | gcttgtattt | taccctaggg | gcagggtctg | atggtgacct | cacatygcac | 720 |
| tggtaaacca | tttgagtcct | actcttcact | ctggaagtgg | gaactggagt | cccaccaca | 780 |
| gtgcatttcag | aaagcatgct | gtgtgggggc | tgcttctcag | gaggccaggc | ccttctgagc | 840 |
| ggaaccgtcc | tggagagagc | ctgcctcctg | ttccaggctg | cagccgtaac | gcactttctc | 900 |
| ccaggctgag | ggcggtgtgt | ctgggtgtgc | tgccctctgt | cgccctctgt | tcctgccagg | 960 |
| acgtggcctc | ttccgatcct | tttctctcag | acactggagg | tctcttctgc | cattgtgtctg | 1020 |
| gtcccattcc | aagaatttga | ggacagagac | cacactgggt | cgccggacac | aaagtccatc | 1080 |
| caggaccag | gccgcagagg | gagcaggaag | agatgctgat | agtttgatct | agaaaccagc | 1140 |
| agctactggc | tcaaattcag | gttctggcgt | caaatacgga | catttccagt | ttctcttaaa | 1200 |
| aaccgtgttt | ggtttccagt | gggataggct | tgttttgtct | gttgaaaatg | tttctagttt | 1260 |
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| acgtttctat | atatcttgaa | gctaaatgta | tatatgagta | gtttgccatg | agataacaca | 1980 |
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| gagggggaag | gtctccctct | ttcgctccat | cctgctgttc | ctcactcgct | tcaccgttct | 180 |
| cacggcaaca | ggctggagtc | tgtgccgac | cctcatccac | ctctccagga | cctactcctt | 240 |
| cctgaacctc | ctgttctctt | gctatccgtt | tgggatgtac | attccgttcc | tgcactgaa | 300 |
| ttkcgamcty | cgsaagacaa | gcctcttcaa | ccacatggcc | tccatggggc | cccgggaggc | 360 |
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| gcacasaaga | cagctgtatg | gcccgggacgc | catgcccacc | catgcctgct | gcctgtcgcc | 480 |
| cagcctcatc | cgcagtggag | tggagtccct | caagatggac | ttcaactggc | gcatgaagga | 540 |
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| gaagaacaca | cattactatg | acaagcgctg | gtcctgtgna | actcttctctg | ctgggtgtcca | 660 |
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| acaaggccgc | cgcccatctg | ggctgttggc | agaagggtga | cccagcgctg | tgctccaacg | 780 |
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| tggagggcgc | tgtcattgtc | tatcagctgt | actccctaata | gtcctctgaa | aagtggcacc | 1020 |
| agaccatctc | gctggccctc | atcctcttca | gcaactacta | tgccttcttc | aagctgctcc | 1080 |
| gggaccgctt | ggtattgggc | aaggcctact | catactctgc | tagccccag | agagacctgg | 1140 |
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| tccaccagag | ctttgtatct | ttgttacgta | ctgtttctct | gataattgat | gtgataagga | 1320 |
| aaaaagtcct | attttttatac | tcccaanmaa | aaaaaaaaaa | naaaaagcgg | ccgaaagct | 1379 |

<210> 19

<211> 1337

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (20)

<223> n equals a,t,g, or c

<400> 19

| | | | | | | |
|------------|-------------|-------------|------------|------------|-------------|-----|
| ctgggtgttg | gcctgagccn | cctcaacaac | tectacaact | tcagtttcca | cgtgggtgatc | 60 |
| ggctctcagg | cggaagaagg | ccagtacagc | ctgaacttcc | acaactgcaa | caattcagtg | 120 |
| ccaggaaagg | agcatccatt | cgacatcacg | gtgatgatcc | gggagaagaa | ccccgatggc | 180 |
| ttcctgtcgg | cagcggagat | gccccttttc | aagctctaca | tggtcatgtc | cgctgtcttc | 240 |
| ctggccgctg | gcactctctg | ggtgtccatc | ctctgcagga | acacgtacag | cgtcttcaag | 300 |
| atccactggc | tcattggcggc | cttggccctc | accaagagca | tctctctcct | cttccacagc | 360 |
| atcaactact | acttcatcaa | cagccagggg | ccaccccatc | gaaggccttg | cggkcatgta | 420 |
| ctacatcgca | cacctgctga | agggcgccct | cctcttcttc | accatcgccc | tgattggctc | 480 |
| aggctgggct | tcattcaagta | cgtcctgtcg | gataaggaga | agaaggtctt | tgggatcgtg | 540 |
| atccccatgc | aggtcctggc | caacgtggcc | tacatcatca | tcgagtcccg | cgaggaaggg | 600 |
| gccacgaact | acgtgctgtg | gaaggagatt | ttgttctctg | tggacctcat | ctgctgtggt | 660 |
| gccatcctgt | tccccgtagt | ctgggtccatc | cggcatctcc | aggatgcgtc | tggcacagac | 720 |
| gggaaggtgg | cagtgaacct | ggccaagctg | aagctgttcc | ggcattacta | tgtcatggtc | 780 |

| | | | | | | |
|------------|------------|------------|-------------|-------------|------------|------|
| atctgctacg | tctacttcac | ccgcacacac | gccatcctgc | tgcagggtggc | tgtgcccttt | 840 |
| cagtggcagt | ggctgtacma | gctcttggtg | garggctcca | ccctggcctt | cttcgtgctc | 900 |
| acgggctaca | agttccagcc | cacagggaac | aaccgcgtacc | tgcagctgcc | ccaggaggac | 960 |
| gaggaggatg | ttcagatgga | gcaagtaatg | acggactctg | ggttccggga | aggcctctcc | 1020 |
| aaagtcaaca | aaacagccag | cgggcgggaa | ctgttatgat | cacctccaca | tctcagacca | 1080 |
| aagggtcgtc | ctccccagc | atttctcact | cctgcccttc | ttccacagcg | tatgtgggga | 1140 |
| ggtggagggg | tccatgtgga | ccaggcgccc | agctcccggg | acscgggttc | ccggacaagc | 1200 |
| ccatttgga | gaagagtc | ttcctcccc | caaataatgg | gcagccctgt | ccttaccctg | 1260 |
| ggaccacccc | tcccttcag | ctatgtgtac | aataatgacc | aatctgtttg | gctaaaaaaa | 1320 |
| aaaaaaaaaa | aactcga | | | | | 1337 |

<210> 20

<211> 1390

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1267)

<223> n equals a,t,g, or c

<400> 20

| | | | | | | |
|------------|-------------|-------------|-------------|-------------|------------|------|
| gccgttttgg | ttccccggtg | gtgcttcctg | ttcgagctg | cggcacttca | aggttactga | 60 |
| ctttttatga | tgtttggtg | ctatgagact | atagawgct | rsgrrgatga | tytttatcga | 120 |
| gatgagtc | ctagtgaact | gagtgttgat | agtgggtgg | aatttcaact | ctatagccaa | 180 |
| attcattatg | cccaagatct | tgatgatgtc | atcaggagg | aagagcatga | agaaaagaac | 240 |
| tctgggaatt | cggaatcttc | gagtagtaaa | ccaaatcaga | agaagcta | cgctctttca | 300 |
| gatagtgg | tcattccagct | gtcagatggg | tcagaggcca | tcactttgtc | tgatgaagac | 360 |
| agtatttata | gatgtaaagg | aaagaatggt | agagttcaag | cacaagaaaa | tgcccatggt | 420 |
| ctttcttctt | ctcttcaatc | taatgagctg | gttgataaga | aatgcaagag | tgatattgag | 480 |
| aagcctaaat | ctgaagagag | atcagggtgta | atccgagagg | tcattgattat | agaggtcagt | 540 |
| tcaagtgaag | aggaagagag | caccatttca | gaagggtgata | atgtggaaag | ctggatgcta | 600 |
| ctgggatgtg | aagtagatga | taaagatgat | gatatccttc | tcaaccttgt | gggatgtgaa | 660 |
| aactctgtta | ctgaaggaga | agatggtata | aactggtcca | tcagtgacaa | agacattgag | 720 |
| gccagatag | ctaataaccg | aacacctgga | agatggaccc | agcgggtacta | ttcagccaac | 780 |
| aaaaacatta | tctgtagaaa | ttgtgacaaa | cgtggtcatt | tatcaaaaaa | ctgcccctta | 840 |
| ccacgaaaag | ttcgctcgctg | cttccctgtgc | tccaggagag | gacatctcct | gtattcctgt | 900 |
| ccagcccccc | tttgccaata | ctgtcctgtg | cctaagatgt | tggaccactc | atgtcttttc | 960 |
| agacattcct | gggataaaca | gtgtgaccga | tgatcatatgc | tagggcacta | tacagatgct | 1020 |
| tgcacagaaa | tctggaggga | gtatcaccta | acgaccaa | ctggaccacc | caaaaagccg | 1080 |
| aagacccttc | caagaccatc | agccttagca | tattgtctatc | actgcgcgca | aaaaggccat | 1140 |
| tatggacacg | aatgtccaga | aagagaagtg | tatgaccctg | ctccagtatc | tccattcatc | 1200 |
| tgctactatg | rtgaaaaata | tgaatttcag | gagagagaaa | agagactaaa | acaaaaaata | 1260 |
| aaagtantca | agaaaaatgg | ggttatccca | gagccatcca | agctacctta | tataaaagca | 1320 |
| gcaaatgaga | acccccacca | tgatataagg | aagggccgtg | cctcatggaa | aagcaacagg | 1380 |
| tggcctcaag | | | | | | 1390 |

<210> 21

<211> 1431

<212> DNA

<213> Homo sapiens

<400> 21

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gcctgcagtc | gacactagtg | gatccaaaga | attcggcctg | tgcgagtagg | cgcttgggca | 60 |
| ctcagtctcc | ctggcgagcg | acgggcagaa | atctogaacc | agtggagcgc | actcgtaacc | 120 |
| tggatcccag | aaggctcgca | aggcagtacc | gtttcctcag | cggcggactg | ctgcagtaag | 180 |

| | | | | | | |
|-------------|-------------|-------------|-------------|------------|-------------|------|
| aatgtctttt | ccacctcatt | tgaatcgccc | tcccatggga | atcccagcac | tcccaccagg | 240 |
| gatcccaccc | ccgcagtttc | caggattttc | tccacctgta | cctccaggga | ccccaatgat | 300 |
| tcctgtacca | atgagcatta | tggctcctgc | tccaactgtc | ttagtaccca | ctgtgtctat | 360 |
| ggttggaaag | cattttggcg | caagaaagga | tcattccaggc | ttaaaggcta | aagaaaatga | 420 |
| tgaaaattgt | ggtcctacta | ccactgtttt | tgttggcaac | atttccgaga | aagcttcaga | 480 |
| catgcttata | agacaactct | tagctaaatg | tggtttgggt | ttgagctgga | agagagtaca | 540 |
| aggtgcttcc | ggaaagcttc | aagccttcgg | attctgtgag | tacaaggagc | cagaatctac | 600 |
| cctccgtgca | ctcagattat | tacatgacct | gcaaattgga | gagaaaaagc | tactcgttaa | 660 |
| agttgatgca | aagacaaagg | cacagctgga | tgaatggaaa | gcaaagaaga | aagctttctaa | 720 |
| tgggaatgca | aggccagaaa | ctgtcactaa | tgacgatgaa | gaagccttgg | atgaagaaac | 780 |
| aaagaggaga | gatcagatga | ttaaaggggc | tattgaagtt | ttaatctgtg | aatactccag | 840 |
| tgagctaaat | gccccctcac | aggaatctga | ttctcacccc | aggaagaaga | agaaggaaaa | 900 |
| gaaggaggac | atthttccgca | gattttccagt | ggccccactg | atcccttata | cactcatcac | 960 |
| taaggaggat | ataaatgcta | tagaaatgga | agaagacaaa | agagacctga | tatctcgaga | 1020 |
| gatcagcaaa | ttcagagaca | cacataagaa | actggaagaa | gagaaaggca | aaaaggaaaa | 1080 |
| agaaagacag | gaaatttga | aagaacggag | agaaagagag | agggagcgtg | aaagggaacg | 1140 |
| agaaaaggcga | gaacgggaac | gagaaaggga | aagagaacgt | gaacgagaaa | aggagaaaga | 1200 |
| acgggagcgg | gaacgagaac | gggataggga | ccgtgaccgg | acaaaagaga | gagaccgaga | 1260 |
| tcgggatcga | gagagagatc | gtgaccggga | tagagaaagg | agctcagatc | gtaataagga | 1320 |
| tcgcattcga | tcaagagaaa | aaagcagaga | tcgtgaaagg | gaacgagagc | gggaaagaga | 1380 |
| gagagagaga | gaacgagagc | gagaacgaga | acgggagcga | gagagagaag | c | 1431 |

<210> 22

<211> 2539

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1283)

<223> n equals a,t,g, or c

<400> 22

| | | | | | | |
|-------------|------------|-------------|------------|-------------|------------|------|
| gggtgcagga | gtgccacccc | cagggccctg | tcaacctctc | ttttctcttc | catggctgtg | 60 |
| tgcttgogta | tctgtctctg | agaatcctcg | gggcggtcag | gggatgtcag | gaggggaagg | 120 |
| agccgccctc | cctatcttgc | tgctcctctt | ggcactcagg | ggcaccttcc | atggagccag | 180 |
| accgggtgga | ggggcttctg | ggatttggtg | tctgctgctg | ccagagcagg | aacccccagt | 240 |
| ctaggacttg | ggcattttta | caggggagaaa | gtagtggctt | cccttttctc | tctctcctcc | 300 |
| tttttccctt | taagcccaca | gattcaggtc | atgccaaaag | ctctctggtt | gtaacctgga | 360 |
| gacatgtgga | ggggaatggc | gatgggatta | taggactctc | cccactctcg | gcccctgacc | 420 |
| tgacccttgc | caccaaccca | aagacagctg | gtgggtttcc | ccttgagagam | aatcctgcgt | 480 |
| ttgcttgggc | cgcccttggc | tgccctcagc | tttcgctgat | ctgcccggcc | tggagcctcc | 540 |
| catcaccccg | cttcttgttg | ggcctcaggc | actggttacc | agaagggggt | ctgggtctgc | 600 |
| tcaggaaatca | tgttttgtag | cacctcctgt | tggaggggtg | gagggatggt | cccctgagcc | 660 |
| aggctgagac | tagaacccca | tcttccctga | gccaggctga | gactagaacc | ccatcttccc | 720 |
| caccacgcca | cccctgtgst | kgctacagga | gcacagtagt | gaaggcctga | gctccagggt | 780 |
| tgaagagacc | aactggagcg | tggggcgggc | aggcaggggt | tagtgaaagg | acacttccag | 840 |
| ggttaggaca | gagcatttag | ccttctggaa | gaacccctgc | ctggggtggg | actgtgcagg | 900 |
| ccagagaagg | tggcatgggc | ctgaacccac | ctggactgac | ttctgcactg | aagccacaga | 960 |
| tggagggtag | gctgggtggg | gggggtgggt | cgttctctag | ccggggcaga | caccagctg | 1020 |
| gctgggtcct | tcctcagcct | tgccctcctc | tgtccccaac | cctttccttt | cctcctgctt | 1080 |
| gcggactgct | ggtccctctt | ccttccctcc | ttccagctgt | ttctagttac | cacctacccc | 1140 |
| tgggcccgtg | actgatcaga | ccagcattca | aaataaaaag | ttgttccaag | ttgacagtgt | 1200 |
| ggtgctccct | gcccagcccc | tccaggtgga | ggtgctgcc | cgggaacgca | ggtgctctgc | 1260 |
| ctgccctggg | cccctggcga | cantgggagc | agggcagctg | tgtgaggagc | ccagctttcc | 1320 |
| cagtcaggca | ggcatggctt | ccgtgttcag | gctccctcac | cagctggtga | cacgggacaa | 1380 |
| gcttacaac | cttctctgaa | cctcagtttt | ctcatttaca | agaggcaag | catccatcac | 1440 |

10063337.020503

```
<210> 23
<211> 1041
<212> DNA
<213> Homo sapiens
```

```
<210> 24
<211> 1962
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> SITE  
<222> (452)  
<223> n equals a,t,g, or c  
  
<220>
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<221> SITE
 <222> (480)
 <223> n equals a,t,g, or c

<400> 24

| | | | | | | |
|------------|-------------|-------------|-------------|-------------|-------------|------|
| acccacgcgt | ccggtacaaa | acacagtttt | attctatgaa | aattttgaga | ttattagaaa | 60 |
| cattagattt | aggggttgc | attaaaaact | atatccattt | tgccttatta | tttagtgtct | 120 |
| cactcaggat | ataacacact | ataatagaaa | atgtagactt | cagaatcagg | tatatttgag | 180 |
| atggtttgta | tactggttct | gacacttggt | agctattcat | cttttgtaaa | ttcccccatta | 240 |
| ccctttgtkc | acctatwtgt | ggggatcagt | gcatagtgtg | tgtwaagcat | ttaatacctg | 300 |
| gcaagtgttc | agcaaatatt | ttgtttctata | tattttattat | ttgattattg | gccctgagga | 360 |
| gtaggtgttt | gtttgtttgt | ttgtttgttt | agttttattt | ctcatctcct | caggaacaca | 420 |
| aatgaaactt | ggatattggt | atgggtgctt | tnataatata | tttattattt | tcagcaattt | 480 |
| attcttggtt | aaacaatttc | ttatgacaag | ttactcatct | tcaatgggtga | gaagaaatct | 540 |
| agctcagaat | aatatatttt | tagtgtttgt | atccttggtt | actcattttg | ctcattgcca | 600 |
| cgtaaagtta | aaaaatacat | aaattagctt | attccaatgt | aatatcttca | ggatagtcac | 660 |
| gggcaaggaa | ttaatcacat | taagagataa | ctgcaactaa | gcactatattg | aggtgacttc | 720 |
| tgtggaaaaa | aaattaatyc | tttaccattg | cagcgtttctg | ccctaggtcc | aaatgttacc | 780 |
| aaaatcactc | tagaatcttt | tcttgcttgg | aagaaaagga | aaagacaaga | aaagattgat | 840 |
| aaacttgaac | aagatatgga | aagaaggaaa | gctgacttca | aagcagggaa | agcactagt | 900 |
| atcagtggtc | gtgaagtgtt | tgaatttcgt | cctgaactgg | tcaatgatga | tgatgaggaa | 960 |
| gcagatgata | cccgtacac | ccagggaaca | ggtggtgatg | aggttgatga | ttcagttagt | 1020 |
| gtaaatgaca | tagatttaag | cctgtacatc | ccaagagatg | tagatgaaac | aggtattact | 1080 |
| gtagccagtc | ttgaaagatt | cagcacatat | acttcagata | aagatgaaaa | caaatttaagt | 1140 |
| gaagcttctg | gaggtagggc | tgaaaaatggt | gaaagaagt | acttggaaga | ggacaacgag | 1200 |
| agggagggaa | cggaatatgg | agccattgat | gctgttcctg | ttgatgaaaa | tcttttccact | 1260 |
| ggagaggatt | tggatgaact | agaagaagaa | ttaaatacac | ttgatattaga | agaatgacac | 1320 |
| caaacacatc | gctgaaaaaa | ttaagtcagc | tcagcacgag | ttgaaattga | ctacattaat | 1380 |
| ttctttccac | ctagaatcaa | caggatgttt | atttccctatg | ctgattcttg | aggagttaac | 1440 |
| ctcctgcaaa | aaaggcatct | tgtccctaca | tcttctcttc | tgactttggc | tacatctcat | 1500 |
| agtaagttca | gagtagttca | tgataaattg | aaaatataat | ggtcattgca | gaaaaatgatt | 1560 |
| gatgttgtaa | ctgtccaccc | aagtaagaag | tgtatctgcc | tttccatctt | ttggttttca | 1620 |
| tttgggcatg | tgctattacc | agaaacaaca | aacttatatt | taaaataccc | ttcatttgac | 1680 |
| acagttttta | atgagtgaat | taatttcctc | tgtatttgta | tgttttagaag | actgcctaaa | 1740 |
| acatgagcac | tgtacttcat | aaaggaaacg | cgtatgcaga | ttcagtattg | tgtatctttg | 1800 |
| gacaattaga | tggacattta | aaatggaaact | tcttttatct | gacaggatca | gctacaatgc | 1860 |
| cctgtgttaa | attgttttaa | agttttccctt | ttcttttttg | ccaataaagt | tgtaaaataaa | 1920 |
| gaccatcata | cattaaaaatc | caaaaaaaaaa | aaaaaaaaaa | aa | | 1962 |

<210> 25
 <211> 1228
 <212> DNA
 <213> Homo sapiens

<220>

<221> SITE
 <222> (580)
 <223> n equals a,t,g, or c

<220>

<221> SITE
 <222> (621)
 <223> n equals a,t,g, or c

<220>

<221> SITE
 <222> (1159)

<223> n equals a,t,g, or c

<400> 25

| | | | | | | |
|-------------|-------------|------------|------------|------------|-------------|------|
| ggctgcccag | gccccgcact | ggaagagcct | ccagcagcaa | gatgtgaccg | ytgtgccgat | 60 |
| gagccccagc | agccactccc | cagaggggag | gcctccacct | ctgctgcctg | ggggtccagt | 120 |
| gtgtaaggca | gctgcatctg | caccgagctc | cctcctggac | cagccgtgcc | tctgccccgc | 180 |
| accctctgtc | cgcaccgctg | ttgccctgac | aacgcgggat | atcacattgg | ttctgcccc | 240 |
| tgacatcatc | caacaggaag | cgtcacctg | agggaggaga | cagaagcctg | ggccagggtga | 300 |
| acagtgggtat | agcagccact | ccagcctctg | ctgcagcagc | cacctgggat | gtggctgttc | 360 |
| ggagaggcct | gtcccacgga | gcccagagge | tgctgtgcgt | ggccctggga | cagctggacc | 420 |
| ggcctccaga | cctcgcccat | gacgggagga | gtctgtggct | gaacatcagg | ggcaaggagg | 480 |
| cggctgcctt | atccatgttc | catgtctcca | cgccactgcc | agtgatgacc | gggtggtttcc | 540 |
| tgagctgcat | cttgggcttg | gtgctgcccc | tggtctatgn | ttccagcctg | acctggtgct | 600 |
| ggtggcgctg | gggctgcca | ntgcctgcag | ggccccacg | ctgcactcct | ggctgcaatg | 660 |
| cttcgggggg | tggcaggggg | ccgagtcctg | gccctcctgg | aggagaactc | cacaccccag | 720 |
| ctagcaggga | tcctggcccc | ggtgctgaat | ggagaggcac | ctcctagcct | aggcccttcc | 780 |
| tctgtggcct | ccccagagga | cgtccaggcc | ctgatgtacc | tgagagggca | gctggagcct | 840 |
| cagtgaaga | tggtgcagtg | ccatcctcac | ctggtggctt | gaaatcggcc | aaggtgggag | 900 |
| catttacacc | gcagaaatga | caccgcacgc | cagcgccccg | cggccgcgat | ccggacccca | 960 |
| agcccacggc | tcctctgact | ctggggcacg | gaaccccgcc | cactcccaat | ccccgcgccc | 1020 |
| cgccctctcc | caccctgtgt | tcctccgctc | cacccctcac | ctcacctcgc | cccgccccca | 1080 |
| cccatcgcg | cccgggccgt | cccatcgagg | cccatgcaac | ccacgctcgg | tyccgttccg | 1140 |
| gccccctgcg | tcckcgctkns | ttcgctcccc | gcccttgccg | cgtagtaaaa | catcgctcaa | 1200 |
| acgaaaaaaaa | aaaaaaaaaa | aaactcga | | | | 1228 |

<210> 26

<211> 1340

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (847)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1303)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1307)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1314)

<223> n equals a,t,g, or c

<400> 26

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| aattcggcag | agagatggcc | gcccccgtag | atctagagct | gaagaaggcc | ttcacagagc | 60 |
| ttcaagccaa | agttattgac | actcaacaga | aggtgaagct | cgcagacata | cagattgaac | 120 |
| agctaaacag | aacgaaaaag | catgcacatc | ttcacagatac | agagatcatg | actttggtag | 180 |
| atgagactaa | catgtatgaa | ggtgtaggaa | gaatgtttat | tottcagtcc | aaggaagcaa | 240 |
| ttcacagtca | gctgttagag | aagcagaaaa | tagcagaaga | aaaaattaaa | gaactagaac | 300 |
| agaaaaagtc | ctacctggag | cgacgttaaa | ggaagctgag | gacaacatcc | gggagatgct | 360 |

| | | | | | | |
|------------|------------|-------------|------------|-------------|-------------|------|
| gatggcacga | agggcccagt | agggagcctc | tctgggaagc | tcttctctct | gcccccccca | 420 |
| ttcctggtgg | gggcagagga | gtgtctgcag | ggaaacagct | tctctctgc | cccgatggat | 480 |
| gctttatttg | gatggcctgg | caacatcaca | ttttctgcat | caccttgagc | cccatttgc | 540 |
| tcccagccct | ggagttttta | cccggctttg | ctgccacctc | tgcccaggac | ackcttccct | 600 |
| ctcgggatgt | gtgatgaact | cccaggagag | ggaagatggg | agccagggca | agataggaag | 660 |
| ctctgcctga | gctttccact | aggcacgcca | gccagaccaa | taaaaagcgt | ctgtccact | 720 |
| ctgctaagcc | tggttttctt | gagcagaggg | atggaacaga | gggtgagaga | ggcagtggcc | 780 |
| gtctccacct | cagctcctgc | tccctctgca | tcagagccct | tcctttcttg | ggggatgggc | 840 |
| cttgccntct | tctcttttcc | cttccgttac | ctttgactaa | cgctcagctt | ccgggcctgc | 900 |
| atgcagtaga | cagaagagga | agaaaagaaca | gatgttcaca | gctgaatctc | agtgaacaga | 960 |
| atagcagtcc | ctggatggca | gtctgcctaa | agattccctt | ccctgccttc | tccatacat | 1020 |
| tccaaaagga | agttcaacag | taagcagcac | ctccaagact | gtctccttty | ggccartatc | 1080 |
| ataagatgga | cgccataatc | ctgaggcctc | ctagaggctg | aggggggcaac | ggtgtgatcc | 1140 |
| agctggctca | tcccagccag | gtgggccaat | tattcaattt | tcaagaattt | tgttgcaagc | 1200 |
| cagttgtcaa | acacagccat | tataattatg | taaatttgca | aattatgtta | aaaacaagga | 1260 |
| caataaatat | tcaaatgca | tccttaawwa | aaaaaaaaaa | aangggnggc | cgcncataggg | 1320 |
| gatccaagct | tacgtacgcg | | | | | 1340 |

<210> 27

<211> 806

<212> DNA

<213> Homo sapiens

<400> 27

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| accttcttcc | atgttttagtc | ccttgggctc | tgctaccctc | ctgctggagg | tgagagcatc | 60 |
| ctgtgtgcaa | ccagagatgc | cctctggctt | tcagacctgc | ctgcttttca | ccctcagccc | 120 |
| tttctcactc | agcaaaattg | tgggggtccc | tagtcagcag | ctccctgggc | agctctctga | 180 |
| gcaagggtgg | ctctgtggtc | atgaaggaga | gccggctagg | acagtgccgg | aaactcagct | 240 |
| gcctctcccc | ttcaactcag | ctggcccccc | gcacctgaag | tgacagggag | ccgggaagag | 300 |
| agtctggagc | ccaccccgga | gggcagcaca | ggagggtgtc | ctgcagctgg | tgtcctgcca | 360 |
| cccctgcagg | cagcacacgt | cccgggcatt | ctccttagcc | acagacagaa | cagccagtgc | 420 |
| cagagtctgc | tgtcgttccc | ctttaagcac | actcattcac | cacaccgag | gaggccagag | 480 |
| gtgcagggag | catgggctgt | cgcttcccc | ttaagcacac | tcattcacca | caccgagga | 540 |
| ggccagaagt | gcaggagca | tgggctgggt | gcacctccgc | aggagagaag | gctgagccac | 600 |
| cgcggtcccc | ggagcccggc | tcccaggcct | ctcgttttcc | cctacctccc | taagactttt | 660 |
| ctgtcactct | ctggccattg | aaaggcttct | gttccctaaa | gtgctgttac | actctccttt | 720 |
| cccaggatgc | agcaagccaa | aacagtacca | ctgcacgtca | gcctgggtga | cagagtgaga | 780 |
| ccctatctta | aaaaaaaaaa | aaaaaa | | | | 806 |

<210> 28

<211> 696

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (21)

<223> n equals a,t,g, or c

<400> 28

| | | | | | | |
|-----------|------------|------------|-----------|------------|------------|----|
| gagttccna | cgcggtggcg | nccgttttag | aaattagtg | atccccccgg | gctggcaggg | 60 |
|-----------|------------|------------|-----------|------------|------------|----|

| | | | | | | |
|-------------|------------|------------|------------|-------------|------------|-----|
| aattcggcac | gagcacagag | gaaagcgggt | gcccggcatg | gccatcctga | tgttgctggc | 120 |
| gggatcccca | tgcaccttgt | ccttctccac | tgatactggc | agctcggctc | ctggacccaa | 180 |
| gatcccttga | gtggaattct | gcagtgcag | agcccttcgt | gggagctgtc | ccatgtttcc | 240 |
| atggtcccca | gtctccctc | cacttggtgg | ggtcaccaac | tactcaccag | aagggggctt | 300 |
| accaagaaag | ccctaaaaag | ctgttgactt | atctgcgctt | gttccaactc | ttatgcccc | 360 |
| aacctgccct | accaccacca | cgcgctcagc | ctgatgtgtt | tacatgggtac | tgtatgtatg | 420 |
| ggagagcaga | ctgcaccctc | cagcaacaac | agatgaaagc | cagtgcgctt | actaaccgtg | 480 |
| ccatcttgca | aactacactt | taaaaaaaaa | tcattgcttt | gtattgtagt | aaccaatatg | 540 |
| tgcagtatac | gttgaatgta | tatgaacata | ctttcctatt | tctgttcttt | gaaaatgtca | 600 |
| gaaatatattt | tttctttctc | attttatggt | gaactaaaaa | ggattaaaaa | aaaaatctcc | 660 |
| agamaaaaaa | aaaaaaaaa | aaattactgc | ggtccg | | | 696 |

<210> 29

<211> 1007

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (922)

<223> n equals a,t,g, or c

<400> 29

| | | | | | | |
|------------|------------|-------------|-------------|-------------|------------|------|
| aattcggcac | gaggaaaaaa | taccatttgt | gtatgatacc | caatttggat | ctcaatttgg | 60 |
| atagagattt | ggtgcttcca | gatgtragtt | atcaggtgga | atccagtgcg | gaggatcagt | 120 |
| ctcagactat | ggatcctcaa | ggacaaactc | tgctgctttt | tctcttttgt | gatttccaca | 180 |
| gtgcatttcc | agtccagcaa | atggaaatct | ggggagtcta | tactttgctc | acaactcacc | 240 |
| tcaatgccat | ccttgtggag | agccacagtg | tagtgcaagg | ttccatccaa | ttcactgtgg | 300 |
| acaaggtctt | ggagcaacat | caccaggctg | ccaaggctca | gcagaaacta | caggcctcac | 360 |
| tctcagtggc | tgtgaactcc | atcatgagta | ttctgactgg | aagcactagg | agcagcttcc | 420 |
| gaaagatgtg | tctccagacc | cttcaagcag | ctgacacaca | agagtccagg | accaaactgc | 480 |
| acaaagtatt | tcgtgagatc | acccaacacc | aattttcttca | ccactgctca | tgtgaggtga | 540 |
| agcagctaac | cctagaaaaa | aaggactcag | cccagggcac | tgaggacgca | cctgataaca | 600 |
| gcagcctgga | gctcctagca | gataccagcg | ggcaagcaga | aaacaagagg | ctcaagaggg | 660 |
| gcagcccccg | catagaggag | atgcgagctc | tgcgctctgc | cagggccccc | agcccgtcag | 720 |
| aggccgcccc | gcgcccgcgc | gaagccaccg | cggcccccct | cactccctaga | ggaagggagc | 780 |
| accgcgaggg | tcacggcgag | gccctggcgc | cgggcagggc | gagcctcgga | agccgcctgg | 840 |
| aggacgtgct | gtggctgcag | gaggctctcca | acctgtcaga | gtggctgagt | cccagccctg | 900 |
| ggccctgagc | cgggtcccc | tncgcaagcg | cccaccgac | cggargctgc | gggcagccgt | 960 |
| tatcccgtgg | tttaataaa | tgccgcgcgc | tcacaaaaa | aaaaaa | | 1007 |

<210> 30

<211> 2026

<212> DNA

<213> Homo sapiens

<400> 30

| | | | | | | |
|-------------|------------|------------|------------|-------------|------------|-----|
| gaattcggca | cgagcacgga | tccgttgcgc | ctgcagctct | gcagtcgggc | cgttccttgc | 60 |
| ccgcccgcag | gggtagcggg | gtagctgcgc | agcgtcgcgc | gcgctaccgc | acccaggttc | 120 |
| ggcccgtagg | cgtctggcag | cccggcgcca | tcttcatoga | gcgccatggc | cgcagcctgc | 180 |
| gggcccgggag | cggccgggta | ctgcttgcgc | ctcggcttgc | atttgtttct | gctgaccgcg | 240 |
| ggccctgccc | tgggctggaa | cgaccctgac | agaatgtctg | tgccgggatgt | aaaagctctt | 300 |
| accctccact | atgacgcgta | taccacctcc | cgcaggctgg | atcccatccc | acagttgaaa | 360 |
| tgtgttggag | gcacagctgg | ttgtgattct | tataccocaa | aagtcataca | gtgtcagaac | 420 |
| aaaggtcggg | atgggtatga | tgtacagtgg | gaatgtaaga | cggacttaga | tattgcatac | 480 |
| aaatttggaa | aaactgtggg | gagctgtgaa | ggctatgagt | cctctgaaga | ccagtatgta | 540 |

[illegible]

gaatgatctg aagtaattgt gctgtattta tgtttattca ccagtctttg attaaataaa
aaggaaaacc agaaaaaaa aaaaaaaaaa aaaaaaaaaa

660

699

<210> 32

<211> 1264

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1057)

<223> n equals a,t,g, or c

<400> 32

| | |
|--|------|
| ggcagcaggg cactgtttcc tcagtccatg gctgagtaca tcaccggtgt tttctctctt | 60 |
| attcctccca tcaagcctaa aaggaatctc tattggagat actgccatta gtgttccttt | 120 |
| tataggtgag gaactgaggg atakaggggt cccagttga accaactgat aaatagtaga | 180 |
| acttggaatt taattcagtc ttgatgccag ggataaggct cttactttct accttaggct | 240 |
| atttctagga aacgcaggag agtggtgaag gggcagagaa agggatccag ttcccttctg | 300 |
| tcccgcatcc tagtccctga gaagcaaaga araatgtgtg gcttcttttg ctttgccttt | 360 |
| gttgtcatcc cacacatctc caggggamct. gggctcttga tcttggsetc ttccccctta | 420 |
| actgttaagt gggagcargt aaggggggtac agtagggctg gcctggagtt agaggcttg | 480 |
| atgccttagc tctctgtct gcactccaga actgcctgac ttcatctcgt atgttgtcct | 540 |
| ttgttttgac aattgatcca tgtcccagtc cgtctcttct tccctcttga tacttacct | 600 |
| gcttctttct gttggtttcc agtggttaac actgtataca acagtgacga caacgtgttt | 660 |
| gtggggggccc ccacgggcag cgggaagact atttgtgcag agtttgccat cctgcgaatg | 720 |
| ctgctgcaga gctcggaggg gcgctgtgys twcwtcaccm ccatggaggg cctggccaga | 780 |
| rcaggatga cgtggcgctg tgtcatgtga atttcccaag aagcatttca tctgtgattc | 840 |
| cgtatgaagg ctttctaagc cctgaaattt gcagggtcat ttcttcagtt tgtgtattaa | 900 |
| agaaaagctg cccagccaa gcgtgggtggc tcacgcctgt aatcccagca ctttgggagg | 960 |
| ccgaggcggg cagatctccg gagatcagga gttcgagacc agcctggcca acatgggtgra | 1020 |
| accctgtctc tactaaaawt acagaaatta gctgggngtg gtggtgtgcg cctgtaatcc | 1080 |
| cagctacttg gaaggctgag gcaggagaat cgcttgaacc cgggagggcg aggttgagct | 1140 |
| gagccaagtt cgcaccactg cactccagcc tgggcaacaa gagcgagact tcatctcaaa | 1200 |
| aaaaaaaaa aaaaactcga gggggggccc ggtacccaat tcgccctata gtgacgtat | 1260 |
| taca | 1264 |

<210> 33

<211> 997

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (855)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (881)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (916)

<223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (957)
 <223> n equals a,t,g, or c

<400> 33
 attggaagtt gttttgcaac ctgggctttt atacagaaga atacgaatca caggtgtgtg 60
 agcatctact taattaattt gcttacagcc gatttcctgc ttactctggc attaccagtg 120
 aaaattgttg ttgacttggg tgtggcacct tggaagctga agatattcca ctgccaagta 180
 acagcctgcc tcatctatat caatatgtat ttatcaatta tcttcttagc atttgtcagc 240
 attgaccgct gtcttcagct gacacacagc tgcaagatct accgaatata agaaccggga 300
 tttgccccaa tgatatcaac cgttgtgtgg ctaatggctc ttcttataat ggtgccaaat 360
 atgatgattc ccatcaaaga catcaaggaa agtcaaatg tgggttgtat ggagttaaa 420
 aaggaaattt gaagaaattg gcatttgctg acaaatttca tatgtgtagc aatattttta 480
 aattttctcag ccatcatttt aatatccaat tgccttgtaa ttcgacagct ctacagaaac 540
 aaagataatg aaaattatcc aaatgtgaaa aaggctctca tcaacatact tttagtgaac 600
 acgggctaca tcatatgctt tgttccttac cacattgtcc gaatcccgtat taccctcagc 660
 cagacagaag tcataactga ttgctcaacc aggatttcac tcttcaaagc caaagaggct 720
 acactgctcc tggctgtgtc gaacctgtgc tttgatccta tctgtacta tcacctctca 780
 aaagcattcc gctcaaaggc cactgagact tttgcctcmc ctaaagagac caaggtyaga 840
 aagaaaaatt aagangtgga aataatggct aaaagacagg ntttttgtgg taccaattct 900
 gggctttatg ggacntaaa gttattatag cttggaagggt aaaaaaaaaa aaaggngngg 960
 cgctctagag gttccccgag gggccagctt aggggtgc 997

<210> 34
 <211> 1914
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (1889)
 <223> n equals a,t,g, or c

<400> 34
 gtgtgagagg cctctctgga agttgtcccg ggtgttcgcc gctggagccc gggctogagag 60
 gacgaggtgc cgctgcctgg agaatcctcc gctgccgtcg gctcccggag cccagccctt 120
 tcctaaccga acccaaccta gccagtcgcc agcggccagc gcctgtccct gtcacggacc 180
 ccagcgttac catgcacctt gccgtcttcc tatccttacc cgacctcaga tgcctccctt 240
 tgctcctggg aacttggggt tttactcctg taacaactga aataacaagt cttgatacag 300
 agaatataga tgaattttta aacaatgctg atgttgcttt agtaaaatttt tatgtgact 360
 ggtgtcgttt cagtcagatg ttgcatccaa tttttgagga agcttccgat gtcattaagg 420
 aagaatttcc aaatgaaaat caagtagtgt ttgccagagt tgatttgtat cagcactctg 480
 acatagccca gagatacagg ataagcaaat acccaaccct caaactgttt cgtaattggga 540
 tgatgatgaa gagagaatac aggggtcagc gatcagtgaa agcattggca gattacatca 600
 ggcaacaaaa aagtgaaccc attcaagaaa ttccgggactt agcagaaatc accactcttg 660
 atcgagcaa aagaaatatc attggatatt ttgagcaaaa ggactcggac aactatagag 720
 tttttgaacg agtagcgaat attttgcatt atgactgtgc ctttctttct gcatttgggg 780
 atgtttcaaa accggaaaaga tatagtggcg acaacataat ctacaaacca ccagggcatt 840
 ctgctccgga tatgtgtgtac ttgggagcta tgacaaattt tgatgtgact tacaattgga 900
 ttcaagataa atgtgttctt cttgtccgag aaataacatt tgaaaatgga gaggaattga 960
 cagaagaagg actgcctttt ctcatactct ttcatatgaa agaagatata gaaagttag 1020
 aaatattcca gaattgaagta gctcggcaat taataagtga aaaagggtaca ataaactttt 1080
 tacatgcccga ttgtgacaaa tttagacatc ctctcttgca catacagaaa actccagcag 1140
 attgtcctgt aatcgctatt gacagcttta ggcataatgta tgtgttttgg gacctcaaag 1200
 atgtattaat tcttgaaaaa ctcaagcaat tcgtatttga cttacattct ggaaaactgc 1260

105531.13553

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|------|
| acagagaatt | ccatcatgga | cctgacccaa | ctgatacagc | cccaggagag | caagcccaag | 1320 |
| atgtagcaag | cagtccacct | gagagctcct | tccagaaact | agcaccagc | gaatataggt | 1380 |
| atactctatt | gagggatcga | gatgagcttt | aaaaacttga | aaaacagttt | gtaagccttt | 1440 |
| caacagcagc | atcaacctac | gtggtggaaa | tagtaaacct | atattttcat | aattctatgt | 1500 |
| gtatttttat | tttgaataaa | cagaaagaaa | ttttgggttt | ttaatttttt | tctccccgac | 1560 |
| tcaaaatgca | ttgtcattta | acatagtagc | ctcttaaaaa | aaaaaaaaac | ctgctaggac | 1620 |
| ttaaaaataa | aaatcagagg | cctatctcca | ctttaaatct | gtcctgtaaa | agttttataa | 1680 |
| atcaaatgaa | agggtgacatt | gccagaaact | taccattaac | ttgcactact | agggtagggg | 1740 |
| ggacttaggg | atgtttcctg | tgtcgtatgt | gcttttcttt | ctttcatatg | atcaattctg | 1800 |
| ttggtatttt | cagtatctca | tttctcaaag | ctaaagagat | atacattctg | gatacttggg | 1860 |
| aggggaataa | attaaagtgt | tcacactgna | aaaaaaaaaa | aaaaaaaaac | tcga | 1914 |

<210> 35

<211> 1020

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (18)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (26)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1014)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1015)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1018)

<223> n equals a,t,g, or c

<400> 35

| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|-----|
| gtataattat | aaatttgntc | ggttonaccg | gtcctgtggt | gcytaaaaaac | accttataaa | 60 |
| agaggagagt | atttgataag | caatttttcat | agtagtaaaag | tttttttttca | tctcttaaac | 120 |
| taaattgacc | atgcatataa | tattcttttgt | ttaaatgaaa | gcataactgtt | gaaacccgca | 180 |
| gtgttgcat | tagaaaacag | ttgaacagaa | tgtcaatgtg | cattcatgca | aaaaaacatt | 240 |
| taatctgcat | ctgtttttaga | aaaggggggaa | atgaagcaac | ttgtctaaaa | atactgcctt | 300 |
| acaaagcatt | tcagcctttc | cccctcagtt | ttgcattgat | tttttgacaa | gtctgtagag | 360 |
| cctaatagtt | tccatcaaaag | gcctagatct | cttatttagc | attttttttca | gctcttctct | 420 |
| cagaagttca | gctgttgaaa | cgaaaactgt | actttgtacc | ctcacatata | aagggatcaa | 480 |
| atttgacctg | gtgttatatt | agccccaaat | ttatgacatt | acacaatatt | aaaatgtaaa | 540 |
| tgtttcttta | cccaaactac | ttctagatat | tctagtattt | gcttctgggtg | gaattaaatg | 600 |
| acggtaaaaat | tggctaatta | tttgaatgaa | tgaatggatg | gatgttttgc | atgotcaatt | 660 |
| tctaggtcct | ttgtctagaa | aggaaatttg | cctcagttga | attagtgaag | tatttctgtc | 720 |
| gttgatatta | aaagtgcatt | ctgagtagag | ttaagttcct | ccattttgcc | actgggctgt | 780 |
| tgggttagaag | cataggtaac | tgattaaagta | ggtatgatac | tgcatttgaa | ataagtggaac | 840 |

10055531-00055542
 10055543-10055554

| | | | | | | |
|------------|------------|------------|------------|------------|------------|------|
| acaaactatc | ctttctccac | catggactca | atctgagaac | aacagcattc | atttccattc | 900 |
| atttccatc | tggcttttga | ttatatgcag | attcctagta | gcatgcctta | cctacagcac | 960 |
| tatgtgcatt | tgctgtcaca | ataaagtata | ttttgtcttg | caaaaaaaaa | aaannaangg | 1020 |

<210> 36
 <211> 781
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|-------------|------------|------------|------------|-------------|-------------|-----|
| <400> 36 | | | | | | |
| aactcctgac | ctcaagtgtc | ccacctgcgt | tggcttccca | aagtgtctggg | atacaggagt | 60 |
| ragccactgc | gcctggctga | ttccagcact | tttmaaata | tgccgctcaa | agccgtgact | 120 |
| tggcctactt | tgaacagcaa | acttgtttgt | gctgtttgtc | acctgaaggc | ctctcaaatg | 180 |
| ccagcttcaa | gcagggtgtg | aattggccag | tgctcagatc | caggagtcc | gtgttgagag | 240 |
| tggtggcttt | agctgcgggg | agctgcactt | ggtggggaaa | gccaggcagg | tcaccctcac | 300 |
| agccagataa | tgtggaggtc | agaacccaag | gaaggaggat | agacctccac | ttccagtggg | 360 |
| ggacctggcc | acctatcctt | ggggacctga | gaaagcgtac | ttcaccttgg | ggtgaaggct | 420 |
| gggtggggcc | agagggacca | gtgccctcct | cagtgtctag | gggcagagcc | acctgcagca | 480 |
| atgggtatct | catattagcc | cctctccacc | ttctttctcc | cgctgaatca | tttccctcaa | 540 |
| agcccaagag | ctgtcactgc | ttctttctcc | ctgggaagaa | tgctgtggact | ctgcctgggtg | 600 |
| atagactgaa | gccagaacag | tgccacaccc | tcgccttaac | tccttgctag | gtgtttctcag | 660 |
| atattatgaga | cttcttagtc | aaatatgagg | gaggttggat | gtggtggctt | gtgcctgtaa | 720 |
| ttccagcatt | ttgggaagcc | gaggtgggag | gatcccttga | agccaggagt | ttgagacaag | 780 |
| c | | | | | | 781 |

<210> 37
 <211> 966
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (8)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (586)
 <223> n equals a,t,g, or c

| | | | | | | |
|-------------|-------------|-------------|-------------|------------|-------------|-----|
| <400> 37 | | | | | | |
| ccactatnng | caatttggtac | cggccccccc | tcgaggaaga | taaggtgcag | ttcatgccag | 60 |
| aatccccagc | ttcccatgca | ggctggggac | atagtgggtt | ctcccgaat | actgggtcac | 120 |
| ttgaatttga | tatgatgtat | atatattcac | ctctagtcca | taggtacata | tagtctatat | 180 |
| attaaaaaga | cattggattt | tgacttaaac | tagatgtttc | tcaagcacac | caagacggtg | 240 |
| ctagagcctg | ggtttggcca | gagaattggg | ttccgggtcag | aagtgtgtgg | ggatggctgg | 300 |
| cgagcaaggt | gtctgtaggg | cagcacagga | tgtctgggtg | gcagacagca | agctttctgtc | 360 |
| ctgccccgag | tgctgaggag | cgaggtgact | gcctacatgg | tgatgsaaa | atttgggcac | 420 |
| gcttccggct | ttcaggccaa | acaacctcgc | ttgtctccatg | gcaccactga | ttccagcagt | 480 |
| ggccccgagg | agctccttcc | tgctgtctca | tgctctgaca | ctttgggggg | ctcctttccc | 540 |
| caccacgtgg | gtctcctgtc | agcctcgaag | tgtcctgcgc | ccctcncctg | taagcccagg | 600 |
| tggtgcctccc | ctggccgcac | ytctctctgtg | ctcctgcgtc | tctctgttct | tcttttagagt | 660 |
| ggttctgcac | gtcagcagca | tctgtgggtg | ggccctggga | cccttcagaa | caggggctcc | 720 |
| tgcccagctt | ctgggtcccc | cacctgtggc | ccagggaagg | ctctttgttc | ctcagcccca | 780 |
| agctgtatct | ggtgagaaca | gatgcgtagt | cccggagctc | aagttctggg | aagggcagtg | 840 |
| cccttttctg | tggggccctg | ggcttgttct | gcattgtttc | aagaggagct | gccactcaaa | 900 |

taggcagccc tgcaatcgga gggctgcgtg ctccccctga tcagccccca gctgcttccct 960
cgtgcc 966

<210> 38
<211> 416
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (395)
<223> n equals a,t,g, or c

<400> 38
gaattcggca cgaggtaata ggagccctcg tacctcttgt gttcccttaca aacattctca 60
tcagtagctc tacgcgttga ctgggtggtt tgaratggct ggtatacaca gggctttctt 120
ggtgttctgt ctctggggct tarctttgtg tgtggttggg gggccctggt gagattggaa 180
gtaccagaga gtgctgtgtc aggggcagag gggcctgtcg ctggagctgg aggggtgctg 240
cctttgtgtc tgactcartc tcctgtctgc cttgccccct cagggtctcg ccagcccagc 300
ctctgtggga atctaaaagg artggatgtg gacgktgtac caagcacatc tcagctttta 360
atacctgggc tatttataga cctttggggg gaatngcttg tggaacaaca agggtt 416

<210> 39
<211> 1114
<212> DNA
<213> Homo sapiens

<400> 39
tgtgtatattg gggggactga aggggtacgtg gggcgaaaca aaaccggcca tggcagcagc 60
ggaggaggag gacggggggc ccgaagccaa aatcgcgagc ggggcggggc gggcgcgacc 120
ttcgaatgta atatatgttt ggagactgct cgggaagctg tggtcagtgt gtgtggccac 180
ctgtactggt ggccatgtct tcatcagtgg ctggagacac ggccagaacg gcaagagtgt 240
ccagtatgta aagctgggat cagcagagag aagggtgtcc cgctttatgg gcgagggagc 300
cagaagcccc aggatcccag attaaaaact ccaccccgcc ccaggggcca gagaccagct 360
ccggagagca gagggggatt ccagccattt ggtgataccg ggggcttcca cttctcattt 420
ggtgttgggtg cttttccctt tggctttttc accaccgtct tcaatgcccc tgagcctttc 480
cgccggggta cagggtgtga tctgggacag ggtcaccag cctccagctg gcaggattcc 540
ctcttccctg ttctcgccat cttcttcttt ttttggctgc tcagtatttg agctatgtct 600
gcttcctgcc cacctccagc cagagaagaa tcagtattga gggtccttgc tgacccttcc 660
gtactcctgg acccccttga cccctctatt tctgttggct aaggccagcc ctggacattg 720
tccaggaagg cctggggagg aggagtgaag tctgtgcata gatgggagag ccttctgctc 780
agaggctcac tcagtaacgt tgtttaattc tctgccttgg ggaaggagga tggattgaga 840
gaatgtcttt ctctctctct aagtctttgc tttccctgat ttcttgattt gatcttcaaa 900
ggtgggcaaa gttccctctg actcttcccc cactccccat cttactgatt taattttaatt 960
tttcaactcc cagagtctaa tatggattct gactcttaag tgcttccgcc cctcactac 1020
ctcctttaat acaaattcaa taaaaaagg gaaatataaa aaaaaaaaaa aaaaaacycg 1080
ggggggggccc cggtcccat tcccttttgg ggg 1114

<210> 40
<211> 602
<212> DNA
<213> Homo sapiens

<220>
<221> SITE

<222> (597)

<223> n equals a,t,g, or c

<400> 40

| | | | | | | |
|-------------|-------------|------------|-------------|------------|------------|-----|
| gggtcgaccc | acgcgtccgt | cccaggccac | aagacatttc | ctgctcggaa | ccttgtttac | 60 |
| taattgtctc | tgtggcacat | tttgtttccc | gtgccttggg | tgtcaagttg | cagctgatac | 120 |
| gaatgaatgc | tgtctgtgtg | gaacaagcgt | cgcaatgagg | actctctaca | ggacccgata | 180 |
| tggcatccct | ggatctatct | gtgatgacta | tatggcaact | ccttgctgtc | ctcattgtac | 240 |
| tctttgccaa | atcaagagag | atatcaacag | aaggagagcc | atgcgtactt | tctaaaaact | 300 |
| gatgggtgaaa | agctcttacc | gaagcaacaa | aattcagcag | acacctcttc | agcttgagtt | 360 |
| cttcaccatc | ttttgcaact | gaaatatgat | ggatatgctt | aagtacaact | gatggcatga | 420 |
| aaaaaatcaa | atTTTTtgatt | tattataaat | gaatgtttgtc | cctgaactta | gctaaatggg | 480 |
| gcaacttagt | ttctccttgc | tttcatatta | tcgaatttcc | tggctcataa | actttttaaa | 540 |
| ttacatttga | aatataaacc | aaatgaaata | ttttactgaa | aaaaaaaaaa | aaaaaanccc | 600 |
| ca | | | | | | 602 |

<210> 41

<211> 970

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> n equals a,t,g, or c

<400> 41

| | | | | | | |
|-------------|------------|-------------|-------------|-------------|------------|-----|
| ggcagagctt | aggagaacag | ctcccttttg | atccctntca | aagggtgatac | cattgggtcc | 60 |
| cagcttagag | taagaagctc | tgagaagttg | aatgaagggt | gagatagaga | tgctgaaccc | 120 |
| attcttscag | cttcttctag | tggtgttatt | tccagaatgg | ccaacacccc | tacattgata | 180 |
| cataaacaca | ttccaaggcc | ttgtgtaata | caaagttcac | cgctctcctg | gaataggagc | 240 |
| cctgggttct | agttctcact | ctgccactgg | gggaaaatcc | aattaaagtc | tggtttagtc | 300 |
| agcttggttc | accatagact | gggtggctta | aacagcagac | atTTatttct | ggtagtttct | 360 |
| ggaggctaca | aatctaagag | caagggtgcc | gcattggtcac | attctggtga | gggscctctt | 420 |
| cctggcttgt | agacggctgc | yttctcaccg | tgtgctcaca | tagcctttcg | tgtgtgtgtg | 480 |
| tgtgtgtgtg | tgcgtkcgtg | caagcttccck | gatgtctctt | cttagaagga | caccaacccc | 540 |
| atcatgagag | ccctactctc | atgacttagc | ctaaccctaa | ttaccctcca | aaggccccc | 600 |
| ctccaaatgc | catcacattg | gagggtagag | cttcaacata | gggatttttg | gggacacaaa | 660 |
| catcagctcc | ataacaaagg | ctgtagtcct | tartttcctt | gtctgtgaaa | tgagagtgtt | 720 |
| gagattctctt | ctagccttta | tcatttataa | ttctgtgaga | tgtagatttg | cattattttc | 780 |
| gagttcgagt | tatatgaaat | gtttccctct | acattttctt | gggcaactga | gaactgaata | 840 |
| gggctagggt | taaataagag | taggcagtta | ggcttattct | tttatttaat | aagcattttt | 900 |
| ggagcatcta | cggtgttcca | ggaactgaac | tgttgtaaac | attggagctg | taacagagaa | 960 |
| caaaagagac | | | | | | 970 |

<210> 42

<211> 1002

<212> DNA

<213> Homo sapiens

<400> 42

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| gaattcggca | cgagccgagg | tcggcagcac | agagctcttg | agatgaagac | cctgttctctg | 60 |
| ggtgtcacgc | tcggmctggc | cgctgccttg | tccttmaccc | tggrggagga | ggatatcaca | 120 |
| gggacctggg | acgtgaaggc | catgggtggc | gataagactt | tccggagaca | ggaggcccag | 180 |
| aagggtgtcc | cagtgaagg | gacagccctg | ggcgggtggg | agttggaagc | cacgttcacc | 240 |
| ttcatgaggg | aggatcggtg | catccagaag | aaaatcctgr | tcgggaagac | ggaggagcct | 300 |

| | | | | | | |
|------------|-------------|-------------|-------------|-------------|-------------|------|
| ggcaaataca | gcgccctgtga | gccccctcccc | caytcccacc | cccacccytcc | cccacccgcca | 360 |
| accccagtg | accagcctcc | acaggtagag | agtgcacagg | ctgcccccttt | gccagggccc | 420 |
| cagctctgcc | cacctccaag | gaggggctgg | cctctccttc | ctgggggggct | ggtggccctg | 480 |
| acatcagaca | ccgggtgtga | caggcttgct | cgagtcgag | atggaccaga | tcacgcctgc | 540 |
| cctctgggag | gccctagcca | ttgacacatt | gaggaagctg | aggattggga | caaggaggcc | 600 |
| aaggattaga | tgggggcagg | aagctcatgt | acctgcagga | gctgcccagg | agggaccayt | 660 |
| acatcttcta | ctgcaaagac | cagcaccatg | ggggcstgct | ccacatggga | aagcttggtg | 720 |
| gtaggaattc | tgataccaac | cgggaggccc | tgaagaatt | taagaaattg | gtgcagcgca | 780 |
| agggactctc | ggaggaggac | atcttcacgc | ccctgcagac | gggaagctgc | gttcccgaac | 840 |
| actaggcagc | ccccgggtct | gcacctccag | agcccacccct | accaccagac | acagagcccg | 900 |
| gaccacctgg | acctaccctc | cagccatgac | ccttccctgc | tcccaccac | ctgactccaa | 960 |
| ataaagtcct | tctcccccaa | aaaaaaaaaa | aaaaaaactc | ga | | 1002 |

<210> 43

<211> 2581

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1591)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1703)

<223> n equals a,t,g, or c

<400> 43

| | | | | | | |
|-------------|-------------|------------|-------------|------------|------------|------|
| tgcaaaaacca | ctggacactg | gacaagtagc | ggatcctggs | cgacgcacgc | ctcttctttg | 60 |
| ggccccagca | ccggsccgtc | atccttcggt | tgtccaaccg | ccgcgcactg | cgctctcgtg | 120 |
| ccagcttctc | ccagccccctc | ttccaggctg | tggstgccat | ctgccgcctc | ctcagcatcc | 180 |
| ggcaccocga | ggagctgtcc | ctgctccggg | ctcctgagaa | gaaggagaag | agaagaagaa | 240 |
| agaaggagcc | agaggaagag | ctctatgact | tgagcaagg | tgtcttggt | gggggcgtgg | 300 |
| cacctgcact | gttccggggg | atgccagctc | acttctcggg | cagcgcccag | actgaggcct | 360 |
| gctaccacat | gctgagccgg | ccccagccgc | caccgcaccc | cctcctgctc | cagcgtctgc | 420 |
| cacggcccag | ctccctgtca | gacaagaccc | agctccacag | caggtggctg | gactcgtcgc | 480 |
| ggtgtctcat | gcagcagggc | atcaaggccg | gggacgcact | ctggctgcgc | ttcaagtact | 540 |
| acagcttctt | cgatttggat | cccaagacag | accccgctgc | gctgacacag | ctgtatgagc | 600 |
| aggcccgggt | ggacctgctg | ctggaggaga | ttgactgcac | cgaggaggag | atgatggtgt | 660 |
| ttgccgccct | gcagtaaccac | atcaacaagc | tgtcccagag | cggggagggt | ggggagccgg | 720 |
| ctggcacaga | cccagggctg | gacgacctgg | atgtggccct | gagcaacctg | gaggtgaagc | 780 |
| tggaggggtc | ggcgcccaca | gatgtgctgg | acagcctcac | caccatccca | gagctcaagg | 840 |
| accatctccg | aatctttcgg | ccccggaagc | tgaccttgaa | gggctaccgc | caacactggg | 900 |
| tgggtgttcaa | ggagaccaca | ctgtcctact | acaagagcca | ggacgaggcc | cctggggacc | 960 |
| ccatttcagca | gctcaacctc | aagggtctgt | aggtgggttc | cgatgttaac | gtctccggcc | 1020 |
| agaagtctct | cattaaactc | ctagtgcctt | cccctgaggc | atgagtgaga | tctacctgcg | 1080 |
| gtgccaggat | gagcagcagt | atgcccgtct | gatggctggc | tgcgcgcttg | cctccaaagg | 1140 |
| ccgcaccatg | gcgacagca | gctacaccag | cgagggtgcag | gccatccttg | cyttcctcag | 1200 |
| cctgcagcgc | acgggcagtg | ggggcccggg | caaccacccc | cacggccctg | atgcctctgc | 1260 |
| cgagggcctc | aacccctacg | gcctcgcttg | cccccgcttc | cagcgaaagt | tcaaggccaa | 1320 |
| gcagctcacc | ccacggatcc | tgaagaccca | ccagaatgtg | gcccagttgt | cgctggcaga | 1380 |
| ggcccagctg | cgcttcatcc | aggcctggca | gtccctgccc | gacttcggca | tctcctatgt | 1440 |
| catggtcagg | ttcaagggca | gcaggaaaga | cgagatcctg | ggcatcgcca | acaaccgact | 1500 |
| gatccgcac | gacttggccg | tgggcgacgt | ggtcaagacc | tggcgcttca | gcaacatgog | 1560 |
| ccagtggaa | gtcaactggg | acatccggca | ngtggccatc | gagtttgatg | aacacatcaa | 1620 |
| tgtggccctc | agctgcgtgt | ctgccagctg | ccgaactgtg | cacgagtata | tcgggggcta | 1680 |

1005-1007 T-22900

| | | | | | | |
|------------|------------|------------|-------------|-------------|-------------|------|
| catttttctg | tcgacgcggg | agnngggccc | tggggaggag | ctggatgaag | acctcttctc | 1740 |
| gcagctcacc | gggggcccag | aggccttctg | agggtgtct | gattgcccct | gccctgctca | 1800 |
| ccaccctgtc | acagccactc | ccaagcccac | accacagggg | gctcactgcc | ccacacccgc | 1860 |
| tccaggcagg | caccagctg | ggcatttcac | ctgctgtcac | tgactttgtg | caggccaagg | 1920 |
| acctggcagg | gccagacgct | gtaccatcac | ccaggccagg | gatgggggtg | gggggtccctg | 1980 |
| agctcatgtg | gtgccccctt | tccttgtctg | agtggctgag | gctgataccc | ctgacctatc | 2040 |
| tgcagtcccc | cagcacacaa | ggaagaccag | atgtagctac | aggatgatga | aacatggttt | 2100 |
| caaacgagtt | ctttcttgtt | actttttaaa | atttcttttt | tataaattaa | tattttattg | 2160 |
| ttggatccct | ctcccttctc | tggagctgtg | cttgggggcta | ctctgacact | ctgtctcttc | 2220 |
| atcaccagcc | aaggaaagg | gctttcctga | taaagacaag | agttgggttag | agaaaggggac | 2280 |
| acctaagtca | gtctaggggt | ggaagctagg | agagagggtga | gggcagaagg | gcacagcttt | 2340 |
| caggaacaag | gaataggggc | tggggtkgk | gttctcacgg | gtaggcggtga | cctgcagggc | 2400 |
| ctccttgaag | tacttgggaa | ggaggaagcc | atcagtattc | cctggagtca | gaatcacccc | 2460 |
| attggcagag | cggagaagag | gtattccatc | tgctgacaga | gccagagatg | tgactcatgc | 2520 |
| cctccccgaa | ggcaagtca | gctcctgctt | tgtccagact | cacctgccag | agccagggggt | 2580 |
| c | | | | | | 2581 |

<210> 44

<211> 796

<212> DNA

<213> Homo sapiens

<400> 44

| | | | | | | |
|------------|-------------|------------|------------|-------------|------------|-----|
| accttcttcc | atgttttagtc | ccttgggctc | tgctaccctc | ctgctggagg | tgagagcatc | 60 |
| ctgtgtgcaa | ccagagatgc | cctctggctt | tcagacctgc | ctgcttttca | ccctcagccc | 120 |
| tttctcactc | agcaaaattg | tgggggtccc | tagtcagcag | ctccctgggc | agctctctga | 180 |
| gcaagggtgt | ctctgtggtc | atgaaggaga | gccggctagg | acagtgcggg | aaactcagct | 240 |
| gcctctcccc | ttcaactcag | ctggcccccc | gcacctgaag | tgacacaggag | ccgggaagag | 300 |
| agtctggagc | ccaccccgga | gggcagcaca | ggagggtgtt | ytgcagctgg | tgtcctgcma | 360 |
| cccytgcagg | cagmacacgt | cccgggcatt | ytcytttagc | acagacagaa | cagccagtgc | 420 |
| cagagtctgc | tgtcgyttcc | cctttaagca | cactcattca | ccadacccga | ggaggccaga | 480 |
| ggtgcagggg | gcatgggctg | tctttccctt | ttaagcacac | tcattcacca | caccogagga | 540 |
| ggccagaagt | gcaggagca | tgggctgggt | gcacctccgc | aggagagaag | gctgagccac | 600 |
| cgccgtcccc | ggagcccggc | tcccaggcct | ctcgttttcc | cctacctccc | taagactttt | 660 |
| ctgtcactct | ctggccattg | aaaggcttct | gttccctaaa | gtgctgttac | actctccttt | 720 |
| cccaggatgc | agcaagccaa | aacagtacca | ctgcacgtca | gcctgggtga | cagagtgaga | 780 |
| ccctatctta | aaaaaa | | | | | 796 |

<210> 45

<211> 2017

<212> DNA

<213> Homo sapiens

<400> 45

| | | | | | | |
|-------------|-------------|------------|------------|-------------|-------------|-----|
| aattcggcac | gagcggatcc | gttgcggctg | cagctctgca | gtcggggccgt | tccttcgcag | 60 |
| ccgccagggg | tagcgggtga | gctgcgcacg | tcgcgcgcgc | taccgcaccc | aggttcggcc | 120 |
| cgtagcgtct | ggcagcccgg | cgccatcttc | atcgagcgcc | atggccgcag | cctgcggggc | 180 |
| gggagcggcg | ggtactgctt | gctcctcggc | ttgcatttgt | ttctgctgac | cgcgggcccct | 240 |
| gcctgggctg | gaacgacctt | gacagaatgt | tgctgcggga | tgtaaaagct | cttacctctc | 300 |
| actatgaccg | ctataccacc | tcccgcagct | ggatcccatc | ccacagttga | aatgtgttgg | 360 |
| aggcacagct | ggtttgtgatt | cttatacccc | aaaagtcata | cagtgtcaga | acaaaggctg | 420 |
| gattgggtat | gatgtacagt | gggaatgtaa | gacggactta | gatattgcat | acaaatttgg | 480 |
| aaaaactgtg | gtgagctgtg | aaggctatga | gtcctctgaa | gaccagtatg | tactaagagg | 540 |
| ttcttgtggc | ttggagtata | atthagatta | tacagaactt | ggcctgcaga | aactgaagga | 600 |
| gtctggaaaag | cagcacggct | ttgcctcttt | ctctgattat | tattataagt | ggtcctcggc | 660 |
| ggattcctgt | aacatgagtg | gattgattac | catcgtggta | ctccttggga | tcgcctttgt | 720 |

| | | | | | | |
|-------------|-------------|------------|-------------|------------|-------------|------|
| agtctataag | ctgttcctga | gtgacgggca | gtattctcct | ccaccgtact | ctgagtatcc | 780 |
| tccattttcc | caccgttacc | agagattcac | caactcagca | ggacctcctc | ccccaggctt | 840 |
| taagtctgag | ttcacaggac | cacagaatac | tggccatggt | gcaacttctg | gttttggcag | 900 |
| tgctttttaca | ggacaacaag | gatatgaaaa | ttcaggacca | gggttctgga | caggcttggg | 960 |
| aactggtgga | atactaggat | atltgtttgg | cagcaataga | gcggaacac | ccttctcaga | 1020 |
| ctcgtggtac | taccctgctc | atcctccctc | ctaccctggc | acgtggaata | gggcttactc | 1080 |
| accccttcat | ggaggctcgg | gcagctattc | ggtatgttca | aactcagaca | cgaaaaccag | 1140 |
| aactgcatca | ggatatgggtg | gtaccaggag | acgataaagt | agaaagtgtg | agtcaaacac | 1200 |
| tggatgcaga | aattttggat | ttttcatcac | tttctcttta | gaaaaaaagt | actacctgtt | 1260 |
| aacaattggg | aaaaggggat | attcaaaagt | tctgtggtgt | tatgtccagt | gtagcttttt | 1320 |
| gtattctatt | atltgaggct | aaaagttgat | gtgtgacaaa | atacttatgt | gttgatatgtc | 1380 |
| agtgtaacat | gcagatgtat | attgcagttt | ttgaaagtga | tcattactgt | ggaatgctaa | 1440 |
| aaatacatta | atltctaaaa | cctgtgatgc | cctaagaagc | attaagaatg | aagggtgtgt | 1500 |
| actaatagaa | actaagtaca | gaaaatttca | gtttttaggtg | gttgtagctg | atgagttatt | 1560 |
| acctcataga | gactataata | ttctatttgg | tattatatta | tttgatgttt | gctgttcttc | 1620 |
| aaacatttaa | atcaagcttt | ggactaatta | tgctaatttg | tgagtcttga | tcacttttga | 1680 |
| gctctgaagc | tttgaatcat | tcagtgggtg | agatggcctt | ctggtaactg | aatattacct | 1740 |
| tctgtaggaa | aaggtggaaa | ataagcatct | agaaggttgt | tgtgaatgac | tctgtgctgg | 1800 |
| caaaaaatgct | tgaaacctct | atatttcttt | cgttcataag | aggtaaaggt | caaatttttc | 1860 |
| aacaaaaagtc | ttttaataac | aaaagcatgc | agttctctgt | gaaatctcaa | atattgttgt | 1920 |
| aatagtctgt | ttcaatctta | aaaagaatca | ataaaaacaa | acaagggaaa | aaaaaaaaaa | 1980 |
| aaaaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | aaaaaaa | | | 2017 |

<210> 46
 <211> 981
 <212> DNA
 <213> Homo sapiens

| | |
|------------|------------|
| <400> 46 | |
| tcggcagcac | agagctctgg |
| gctgccctgt | ccttcaccct |
| atggtggtcg | ataagacttt |
| acagccctgg | gcgggtggaa |
| atccagaaga | aaatcctgrt |
| cccccccccc | aytcccaccc |
| caggtagaga | gtgcccaggc |
| aggggctggc | ctctccttcc |
| aggcttgtcc | gcagtcgaga |
| tgacacattg | aggaagctga |
| agctcatgta | cctgcaggag |
| agcaccatga | gggcstgtc |
| gggagggcct | ggaagaattt |
| ttttcacgcc | cctgcagacg |
| cacctccaga | gccaccctca |
| agccatgacc | cttccctgct |
| aaaaaaaaaa | aaaaaactcg |
| | a |

<210> 47
 <211> 146
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (146)
 <223> Xaa equals stop translation

Met His Tyr Gln Met Ser Val Thr Leu Lys Tyr Glu Ile Lys Lys Leu
1 5 10 15

Val Gly His Leu Arg Leu Leu Ser His Asp Gln Val Ala Met Pro Tyr
35 40 45

Leu Leu Ser Phe Pro Arg Asn Asn Ile Ser Tyr Leu Val Leu Ser Met
65 70 75 80

Glu Met Phe Pro Ala Ala Gln Pro Ser Thr Ala Met Ala Arg Pro Thr
100 105 110

Cys Trp Gln Cys Lys Cys Met Pro Gly Ser Cys Thr Thr Ala Arg Ser
130 135 140

Met Asn Ser Val Val Ser Leu Leu Leu Ile Leu Glu Pro Asp Lys Gln
1 5 10 15

Gly Glu Arg Pro Ser Leu Arg Leu Gln Leu Leu Ser Asn Leu Phe His
35 40 45

Ile Lys Val Ala Ala Ser Cys Gly Ala Ile Gln Tyr Ile Pro Thr Glu
65 70 75 80

```

<400> 49
Met Met Ser Phe Phe Cys Phe Val Met Gly Val Thr Val Ala Ala Thr
  1             5             10             15
Phe Thr Ala Ile Val Pro Arg Trp Arg Leu Ser Gln Lys Glu Ile Gly
      20             25             30

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Ser Val Leu Ser Val Trp Leu Ser Arg Trp Arg Glu Asn Ser Leu Arg
 35 40 45

Ser Leu Val Ser Gln Ser Val Ala Arg Ser Gly Lys Val Val Ile Arg
 50 55 60

<210> 50

<211> 467

<212> PRT

<213> Homo sapiens

<400> 50

Met Leu Ser Arg Pro Gln Pro Pro Pro Asp Pro Leu Leu Leu Gln Arg
 1 5 10 15

Leu Pro Arg Pro Ser Ser Leu Ser Asp Lys Thr Gln Leu His Ser Arg
 20 25 30

Trp Leu Asp Ser Ser Arg Cys Leu Met Gln Gln Gly Ile Lys Ala Gly
 35 40 45

Asp Ala Leu Trp Leu Arg Phe Lys Tyr Tyr Ser Phe Phe Asp Leu Asp
 50 55 60

Pro Lys Thr Asp Pro Val Arg Leu Thr Gln Leu Tyr Glu Gln Ala Arg
 65 70 75 80

Trp Asp Leu Leu Leu Glu Glu Ile Asp Cys Thr Glu Glu Glu Met Met
 85 90 95

Val Phe Ala Ala Leu Gln Tyr His Ile Asn Lys Leu Ser Gln Ser Gly
 100 105 110

Glu Val Gly Glu Pro Ala Gly Thr Asp Pro Gly Leu Asp Asp Leu Asp
 115 120 125

Val Ala Leu Ser Asn Leu Glu Val Lys Leu Glu Gly Ser Ala Pro Thr
 130 135 140

Asp Val Leu Asp Ser Leu Thr Thr Ile Pro Glu Leu Lys Asp His Leu
 145 150 155 160

Arg Ile Phe Arg Pro Arg Lys Leu Thr Leu Lys Gly Tyr Arg Gln His
 165 170 175

Trp Val Val Phe Lys Glu Thr Thr Leu Ser Tyr Tyr Lys Ser Gln Asp
 180 185 190

Glu Ala Pro Gly Asp Pro Ile Gln Gln Leu Asn Leu Lys Gly Cys Glu
 195 200 205

Val Val Pro Asp Val Asn Val Ser Gly Gln Lys Phe Cys Ile Lys Leu
 210 215 220

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<220>
<221> SITE
<222> (83)

<222> (124)

<223> Xaa equals stop translation

<400> 53

Met Arg Gly Ser Trp His Arg Ser Pro Leu Pro Ala Val Val Leu Pro
1 5 10 15

Ser Val Leu Gln Thr Ala Leu Ser Pro Leu Ala Leu Cys Gln Ala Trp
20 25 30

Arg Arg Ala Val Pro His Gly Val Pro Ser Gln Arg Leu Arg Asn Gln
35 40 45

Glu Ala Ser Leu Val Pro Lys Gly Val Pro Arg Ala Trp Tyr Pro Gly
50 55 60

Pro Leu Gln Asn Gly Leu Trp Thr His Leu Glu Lys Gly Glu Leu Leu
65 70 75 80

Gly Leu Lys Pro Thr Pro Gly Gly Leu Leu Leu Leu Arg Ser Phe Trp
85 90 95

Asp Pro His Pro Ser Arg Pro Phe Leu Cys Thr Leu Leu Pro Pro Pro
100 105 110

Leu Xaa Ile Phe Pro Pro Leu Arg Cys Ser Ala Xaa
115 120

<210> 54

<211> 180

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (27)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (85)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

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<223> Xaa equals any of the naturally occurring L-amino acids

<223> Xaa equals stop translation

Arg Phe Ser Xaa
180

<223> Xaa equals any of the naturally occurring L-amino acids

<223> Xaa equals stop translation

Asp Val Gln Met Glu Gln Val Met Thr Asp Ser Gly Phe Arg Glu Gly
260 265 270

Leu Ser Lys Val Asn Lys Thr Ala Ser Gly Arg Glu Leu Leu Xaa
 275 280 285

<210> 56
 <211> 34
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (34)
 <223> Xaa equals stop translation

<400> 56
 Met Pro Met Val Phe Leu Leu Leu Phe Asn Leu Met Ser Trp Leu Ile
 1 5 10 15

Arg Asn Ala Arg Val Ile Leu Arg Ser Leu Asn Leu Lys Arg Asp Gln
 20 25 30

Val Xaa

<210> 57
 <211> 24
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (24)
 <223> Xaa equals stop translation

<400> 57
 Met Lys Ile Val Val Leu Leu Pro Leu Phe Leu Leu Ala Thr Phe Pro
 1 5 10 15

Arg Lys Leu Gln Thr Cys Leu Xaa
 20

<210> 58
 <211> 47
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (47)
 <223> Xaa equals stop translation

<400> 58
 Met Ser Gly Gly Glu Gly Ala Ala Leu Pro Ile Leu Leu Leu Leu
 1 5 10 15

Ala Leu Arg Gly Thr Phe His Gly Ala Arg Pro Gly Gly Ala Ser

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20

25

30

Gly Ile Trp Cys Leu Leu Leu Pro Glu Gln Glu Pro Pro Val Xaa
 35 40 45

<210> 59
 <211> 114
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (114)
 <223> Xaa equals stop translation

<400> 59
 Met Ala Arg Gly Ser Leu Arg Arg Leu Leu Arg Leu Leu Val Leu Gly
 1 5 10 15

Leu Trp Leu Ala Leu Leu Arg Ser Val Ala Gly Glu Gln Ala Pro Gly
 20 25 30

Thr Ala Pro Cys Ser Arg Gly Ser Ser Trp Ser Ala Asp Leu Asp Lys
 35 40 45

Cys Met Asp Cys Ala Ser Cys Arg Ala Arg Pro His Ser Asp Phe Cys
 50 55 60

Leu Gly Cys Ala Ala Ala Pro Pro Ala Pro Phe Arg Leu Leu Trp Pro
 65 70 75 80

Ile Leu Gly Gly Ala Leu Ser Leu Thr Phe Val Leu Gly Leu Leu Ser
 85 90 95

Gly Phe Leu Val Trp Arg Arg Cys Arg Arg Glu Arg Ser Ser Pro Pro
 100 105 110

Pro Xaa

<210> 60
 <211> 32
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (26)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (32)
 <223> Xaa equals stop translation

<400> 60

<400> 62
Met Ala Ala Pro Val Asp Leu Glu Leu Lys Lys Ala Phe Thr Glu Leu
1 5 10 15

Gln Ala Lys Val Ile Asp Thr Gln Gln Lys Val Lys Leu Ala Asp Ile
 20 25 30

Gln Ile Glu Gln Leu Asn Arg Thr Lys Lys His Ala His Leu Thr Asp
 35 40 45

Thr Glu Ile Met Thr Leu Val Asp Glu Thr Asn Met Tyr Glu Gly Val
 50 55 60

Gly Arg Met Phe Ile Leu Gln Ser Lys Glu Ala Ile His Ser Gln Leu
 65 70 75 80

Leu Glu Lys Gln Lys Ile Ala Glu Glu Lys Ile Lys Glu Leu Glu Gln
 85 90 95

Lys Lys Ser Tyr Leu Glu Arg Arg
 100

<210> 63
 <211> 146
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (146)
 <223> Xaa equals stop translation

<400> 63
 Met Pro Ser Gly Phe Gln Thr Cys Leu Leu Phe Thr Leu Ser Pro Phe
 1 5 10 15

Ser Leu Ser Lys Ile Val Gly Val Pro Ser Gln Gln Leu Pro Gly Gln
 20 25 30

Leu Ser Glu Gln Gly Gly Leu Cys Gly His Glu Gly Glu Pro Ala Arg
 35 40 45

Thr Val Pro Glu Thr Gln Leu Pro Leu Pro Phe Asn Ser Ala Gly Pro
 50 55 60

Pro His Leu Lys Cys Thr Gly Ala Gly Lys Arg Val Trp Ser Pro Pro
 65 70 75 80

Arg Arg Ala Ala Gln Glu Val Ser Leu Gln Leu Val Ser Cys His Pro
 85 90 95

Cys Arg Gln His Thr Ser Arg Ala Phe Ser Leu Ala Thr Asp Arg Thr
 100 105 110

Ala Ser Ala Arg Val Cys Cys Arg Ser Pro Leu Ser Thr Leu Ile His
 115 120 125

His Thr Arg Gly Gly Gln Arg Cys Arg Glu His Gly Leu Ser Leu Pro
 130 135 140

Leu Xaa
145

<210> 64
<211> 31
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (31)
<223> Xaa equals stop translation

<400> 64
Met Ala Ile Leu Met Leu Leu Ala Gly Ser Pro Cys Thr Leu Ser Phe
1 5 10 15
Ser Thr Asp Thr Gly Ser Ser Ala Pro Gly Pro Lys Ile Pro Xaa
20 25 30

<210> 65
<211> 260
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (260)
<223> Xaa equals stop translation

<400> 65
Met Asp Pro Gln Gly Gln Thr Leu Leu Leu Phe Leu Phe Val Asp Phe
1 5 10 15
His Ser Ala Phe Pro Val Gln Gln Met Glu Ile Trp Gly Val Tyr Thr
20 25 30
Leu Leu Thr Thr His Leu Asn Ala Ile Leu Val Glu Ser His Ser Val
35 40 45
Val Gln Gly Ser Ile Gln Phe Thr Val Asp Lys Val Leu Glu Gln His
50 55 60
His Gln Ala Ala Lys Ala Gln Gln Lys Leu Gln Ala Ser Leu Ser Val
65 70 75 80
Ala Val Asn Ser Ile Met Ser Ile Leu Thr Gly Ser Thr Arg Ser Ser
85 90 95
Phe Arg Lys Met Cys Leu Gln Thr Leu Gln Ala Ala Asp Thr Gln Glu
100 105 110
Phe Arg Thr Lys Leu His Lys Val Phe Arg Glu Ile Thr Gln His Gln
115 120 125
Phe Leu His His Cys Ser Cys Glu Val Lys Gln Leu Thr Leu Glu Lys

130 135 140

Lys Asp Ser Ala Gln Gly Thr Glu Asp Ala Pro Asp Asn Ser Ser Leu
145 150 155 160

Glu Leu Leu Ala Asp Thr Ser Gly Gln Ala Glu Asn Lys Arg Leu Lys
165 170 175

Arg Gly Ser Pro Arg Ile Glu Glu Met Arg Ala Leu Arg Ser Ala Arg
180 185 190

Ala Pro Ser Pro Ser Glu Ala Ala Pro Arg Arg Pro Glu Ala Thr Ala
195 200 205

Ala Pro Leu Thr Pro Arg Gly Arg Glu His Arg Glu Ala His Gly Arg
210 215 220

Ala Leu Ala Pro Gly Arg Ala Ser Leu Gly Ser Arg Leu Glu Asp Val
225 230 235 240

Leu Trp Leu Gln Glu Val Ser Asn Leu Ser Glu Trp Leu Ser Pro Ser
245 250 255

Pro Gly Pro Xaa
260

<210> 66
<211> 339
<212> PRT
<213> Homo sapiens

<400> 66

Met Ala Ala Ala Cys Gly Pro Gly Ala Ala Gly Tyr Cys Leu Leu Leu
1 5 10 15

Gly Leu His Leu Phe Leu Leu Thr Ala Gly Pro Ala Leu Gly Trp Asn
20 25 30

Asp Pro Asp Arg Met Leu Leu Arg Asp Val Lys Ala Leu Thr Leu His
35 40 45

Tyr Asp Arg Tyr Thr Thr Ser Arg Arg Leu Asp Pro Ile Pro Gln Leu
50 55 60

Lys Cys Val Gly Gly Thr Ala Gly Cys Asp Ser Tyr Thr Pro Lys Val
65 70 75 80

Ile Gln Cys Gln Asn Lys Gly Trp Asp Gly Tyr Asp Val Gln Trp Glu
85 90 95

Cys Lys Thr Asp Leu Asp Ile Ala Tyr Lys Phe Gly Lys Thr Val Val
100 105 110

Ser Cys Glu Gly Tyr Glu Ser Ser Glu Asp Gln Tyr Val Leu Arg Gly
115 120 125

Ser Cys Gly Leu Glu Tyr Asn Leu Asp Tyr Thr Glu Leu Gly Leu Gln

130

135

140

Lys Leu Lys Glu Ser Gly Lys Gln His Gly Phe Ala Ser Phe Ser Asp
 145 150 155 160

Tyr Tyr Tyr Lys Trp Ser Ser Ala Asp Ser Cys Asn Met Ser Gly Leu
 165 170 175

Ile Thr Ile Val Val Leu Leu Gly Ile Ala Phe Val Val Tyr Lys Leu
 180 185 190

Phe Leu Ser Asp Gly Gln Tyr Ser Pro Pro Pro Tyr Ser Glu Tyr Pro
 195 200 205

Pro Phe Ser His Arg Tyr Gln Arg Phe Thr Asn Ser Ala Gly Pro Pro
 210 215 220

Pro Pro Gly Phe Lys Ser Glu Phe Thr Gly Pro Gln Asn Thr Gly His
 225 230 235 240

Gly Ala Thr Ser Gly Phe Gly Ser Ala Phe Thr Gly Gln Gln Gly Tyr
 245 250 255

Glu Asn Ser Gly Pro Gly Phe Trp Thr Gly Leu Gly Thr Gly Gly Ile
 260 265 270

Leu Gly Tyr Leu Phe Gly Ser Asn Arg Ala Ala Thr Pro Phe Ser Asp
 275 280 285

Ser Trp Tyr Tyr Pro Ser Tyr Pro Pro Ser Tyr Pro Gly Thr Trp Asn
 290 295 300

Arg Ala Tyr Ser Pro Leu His Gly Gly Ser Gly Ser Tyr Ser Val Cys
 305 310 315 320

Ser Asn Ser Asp Thr Lys Thr Arg Thr Ala Ser Gly Tyr Gly Gly Thr
 325 330 335

Arg Arg Arg

<210> 67

<211> 27

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (27)

<223> Xaa equals stop translation

<400> 67

Met His Ala Leu Ile Leu Gln Phe Ile Phe Ser Leu Cys Met Tyr Ile
 1 5 10 15

Ser Leu Phe Ser Ala Ala Arg Phe Leu Phe Xaa
 20 25

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<220>  
<221> SITE  
<222> (64)  
<223> Xaa equals any of the naturally occurring L-amino acids
```

<400> 68
Met Ser Gln Ser Val Ser Ser Ser Phe Leu Ile Leu Thr Leu Leu Leu
1 5 10 15

Cys Leu Trp Gly Pro Pro Arg Ala Ala Gly Arg Leu Phe Val Gln Ser
35 40 45

Xaa Ser Pro Pro Trp Arg Pro Trp Pro Glu Gln Val
65 70 75

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<220>
<221> SITE
<222> (216)
<223> Xaa equals stop translation
```

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<400> 69
Met Tyr Leu Ser Ile Ile Phe Leu Ala Phe Val Ser Ile Asp Arg Cys
  1             5             10             15
```

Leu Gln Leu Thr His Ser Cys Lys Ile Tyr Arg Ile Gln Glu Pro Gly
20 25 30

Phe Ala Lys Met Ile Ser Thr Val Val Trp Leu Met Val Leu Leu Ile
35 40 45

Met Val Pro Asn Met Met Ile Pro Ile Lys Asp Ile Lys Glu Lys Ser
50 55 60

Asn Val Gly Cys Met Glu Phe Lys Lys Glu Phe Gly Arg Asn Trp His

65 70 75 80
 Leu Leu Thr Asn Phe Ile Cys Val Ala Ile Phe Leu Asn Phe Ser Ala
 85 90 95
 Ile Ile Leu Ile Ser Asn Cys Leu Val Ile Arg Gln Leu Tyr Arg Asn
 100 105 110
 Lys Asp Asn Glu Asn Tyr Pro Asn Val Lys Lys Ala Leu Ile Asn Ile
 115 120 125
 Leu Leu Val Thr Thr Gly Tyr Ile Ile Cys Phe Val Pro Tyr His Ile
 130 135 140
 Val Arg Ile Pro Tyr Thr Leu Ser Gln Thr Glu Val Ile Thr Asp Cys
 145 150 155 160
 Ser Thr Arg Ile Ser Leu Phe Lys Ala Lys Glu Ala Thr Leu Leu Leu
 165 170 175
 Ala Val Ser Asn Leu Cys Phe Asp Pro Ile Leu Tyr Tyr His Leu Ser
 180 185 190
 Lys Ala Phe Arg Ser Lys Val Thr Glu Thr Phe Ala Ser Pro Lys Glu
 195 200 205
 Thr Lys Val Arg Lys Lys Asn Xaa
 210 215

<210> 70
 <211> 407
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (407)
 <223> Xaa equals stop translation

<400> 70
 Met His Pro Ala Val Phe Leu Ser Leu Pro Asp Leu Arg Cys Ser Leu
 1 5 10 15
 Leu Leu Leu Val Thr Trp Val Phe Thr Pro Val Thr Thr Glu Ile Thr
 20 25 30
 Ser Leu Asp Thr Glu Asn Ile Asp Glu Ile Leu Asn Asn Ala Asp Val
 35 40 45
 Ala Leu Val Asn Phe Tyr Ala Asp Trp Cys Arg Phe Ser Gln Met Leu
 50 55 60
 His Pro Ile Phe Glu Glu Ala Ser Asp Val Ile Lys Glu Glu Phe Pro
 65 70 75 80
 Asn Glu Asn Gln Val Val Phe Ala Arg Val Asp Cys Asp Gln His Ser
 85 90 95

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Asp Ile Ala Gln Arg Tyr Arg Ile Ser Lys Tyr Pro Thr Leu Lys Leu
 100 105 110
 Phe Arg Asn Gly Met Met Met Lys Arg Glu Tyr Arg Gly Gln Arg Ser
 115 120 125
 Val Lys Ala Leu Ala Asp Tyr Ile Arg Gln Gln Lys Ser Asp Pro Ile
 130 135 140
 Gln Glu Ile Arg Asp Leu Ala Glu Ile Thr Thr Leu Asp Arg Ser Lys
 145 150 155 160
 Arg Asn Ile Ile Gly Tyr Phe Glu Gln Lys Asp Ser Asp Asn Tyr Arg
 165 170 175
 Val Phe Glu Arg Val Ala Asn Ile Leu His Asp Asp Cys Ala Phe Leu
 180 185 190
 Ser Ala Phe Gly Asp Val Ser Lys Pro Glu Arg Tyr Ser Gly Asp Asn
 195 200 205
 Ile Ile Tyr Lys Pro Pro Gly His Ser Ala Pro Asp Met Val Tyr Leu
 210 215 220
 Gly Ala Met Thr Asn Phe Asp Val Thr Tyr Asn Trp Ile Gln Asp Lys
 225 230 235 240
 Cys Val Pro Leu Val Arg Glu Ile Thr Phe Glu Asn Gly Glu Glu Leu
 245 250 255
 Thr Glu Glu Gly Leu Pro Phe Leu Ile Leu Phe His Met Lys Glu Asp
 260 265 270
 Thr Glu Ser Leu Glu Ile Phe Gln Asn Glu Val Ala Arg Gln Leu Ile
 275 280 285
 Ser Glu Lys Gly Thr Ile Asn Phe Leu His Ala Asp Cys Asp Lys Phe
 290 295 300
 Arg His Pro Leu Leu His Ile Gln Lys Thr Pro Ala Asp Cys Pro Val
 305 310 315 320
 Ile Ala Ile Asp Ser Phe Arg His Met Tyr Val Phe Gly Asp Phe Lys
 325 330 335
 Asp Val Leu Ile Pro Gly Lys Leu Lys Gln Phe Val Phe Asp Leu His
 340 345 350
 Ser Gly Lys Leu His Arg Glu Phe His His Gly Pro Asp Pro Thr Asp
 355 360 365
 Thr Ala Pro Gly Glu Gln Ala Gln Asp Val Ala Ser Ser Pro Pro Glu
 370 375 380
 Ser Ser Phe Gln Lys Leu Ala Pro Ser Glu Tyr Arg Tyr Thr Leu Leu
 385 390 395 400

Ser Cys Gln Pro Arg Ser Val Leu Arg Pro Ser Pro Val Arg Pro Gly
 35 40 45
 Val Pro Pro Leu Ala Ala Xaa Pro Leu Cys Ser Cys Val Ser Leu Phe
 50 55 60
 Phe Phe Arg Val Val Leu His Val Ser Ser Ile Cys Gly Val Ala Leu
 65 70 75 80
 Gly Pro Phe Arg Thr Gly Ala Pro Ala Gln Leu Leu Gly Pro Pro Pro
 85 90 95
 Val Ala Gln Gly Arg Leu Phe Val Pro Gln Pro Gln Ala Val Ser Gly
 100 105 110
 Glu Asn Arg Cys Val Val Pro Glu Leu Lys Phe Trp Glu Gly Gln Cys
 115 120 125
 Pro Phe Leu Trp Gly Pro Gly Leu Val Leu His Cys Phe Lys Arg Ser
 130 135 140
 Cys His Ser Asn Arg Gln Pro Cys Asn Arg Arg Ala Ala Cys Ser Pro
 145 150 155 160

<210> 74

<211> 26

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (26)

<223> Xaa equals stop translation

<400> 74

Met Ala Gly Ile His Arg Ala Phe Leu Val Phe Cys Leu Trp Gly Leu
 1 5 10 15

Xaa Leu Cys Val Val Gly Gly Pro Trp Xaa
 20 25

<210> 75

<211> 91

<212> PRT

<213> Homo sapiens

<400> 75

Met Ala Ala Ala Glu Glu Glu Asp Gly Gly Pro Glu Ala Lys Ile Ala

| | | | |
|---|----|----|----|
| 1 | 5 | 10 | 15 |
| Ser Gly Ala Gly Arg Ala Arg Pro Ser Asn Val Ile Tyr Val Trp Arg | | | |
| 20 | 25 | 30 | |
| Leu Leu Gly Lys Leu Trp Ser Val Cys Val Ala Thr Cys Thr Val Gly | | | |
| 35 | 40 | 45 | |
| His Val Phe Ile Ser Gly Trp Arg His Gly Gln Asn Gly Lys Ser Val | | | |
| 50 | 55 | 60 | |
| Gln Tyr Val Lys Leu Gly Ser Ala Glu Arg Arg Leu Ser Arg Phe Met | | | |
| 65 | 70 | 75 | 80 |
| Gly Glu Gly Ala Arg Ser Pro Arg Ile Pro Asp | | | |
| 85 | 90 | | |

<210> 76
 <211> 33
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (33)
 <223> Xaa equals stop translation

<400> 76
 Met Thr Ile Trp Gln Leu Phe Ala Val Leu Ile Val Leu Phe Ala Lys
 1 5 10 15

Ser Arg Glu Ile Ser Thr Glu Gly Glu Pro Cys Val Leu Ser Lys Asn
 20 25 30

Xaa

<210> 77
 <211> 23
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (6)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (23)
 <223> Xaa equals stop translation

<400> 77
 Met Leu Asn Pro Phe Xaa Gln Leu Leu Leu Val Leu Leu Phe Pro Glu
 1 5 10 15

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<210> 78
<211> 173
<212> PRT
<213> Homo sapiens
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<220>  
<221> SITE  
<222> (21)  
<223> Xaa equals any of the naturally occurring L-amino acids
```

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<220>
<221> SITE
<222> (80)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (102)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 78
Met Lys Thr Leu Phe Leu Gly Val Thr Leu Gly Leu Ala Ala Ala Leu
1 5 10 15

Ser Xaa Thr Leu Xaa Glu Glu Asp Ile Thr Gly Thr Trp Tyr Val Lys
20 25 30

Ala Met Val Val Asp Lys Thr Phe Arg Arg Gln Glu Ala Gln Lys Val
35 40 45

Ser Pro Val Lys Val Thr Ala Leu Gly Gly Gly Lys Leu Glu Ala Thr
50 55 60

Phe Thr Phe Met Arg Glu Asp Arg Cys Ile Gln Lys Lys Ile Leu Xaa
65 70 75 80

Arg Lys Thr Glu Glu Pro Gly Lys Tyr Ser Ala Cys Glu Pro Leu Pro
85 90 95

His Ser His Pro His Xaa Pro Pro Pro Pro Thr Pro Val His Gln Pro
100 105 110

Pro Gln Val Glu Ser Ala Gln Ala Ala Leu Leu Pro Gly Pro Gln Leu
115 120 125

Cys Pro Pro Pro Arg Arg Gly Trp Pro Leu Leu Pro Gly Gly Leu Val
130 135 140

Ala Leu Thr Ser Asp Thr Gly Cys Asp Arg Leu Val Arg Ser Arg Asp

160

Phe Ser Cys Val Ser Ala Ser Cys Arg Ile Val His Glu Tyr Ile Gly

175

Asp Glu Asp Leu Phe Leu Gln Leu Thr Gly Gly His Glu Ala Phe Xaa
195 200 205

<213> Homo sapiens

<223> Xaa equals any of the naturally occurring L-amino acids

<223> Xaa equals any of the naturally occurring L-amino acids

<223> Xaa equals stop translation

Pro His Pro Arg Arg Pro Glu Val Gln Gly Ala Trp Ala Val Val Pro

130

135

140

Leu Xaa
145

<210> 81
<211> 23
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (23)
<223> Xaa equals stop translation

<400> 81
Met Ala Ala Ala Cys Gly Pro Gly Ala Ala Gly Thr Ala Cys Ser Ser
1 5 10 15

Ala Cys Ile Cys Phe Cys Xaa
20

<210> 82
<211> 31
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (31)
<223> Xaa equals stop translation

<400> 82
Met Lys Thr Leu Phe Leu Gly Val Thr Leu Gly Leu Ala Leu Pro Cys
1 5 10 15

Pro Ser Pro Trp Xaa Arg Arg Ile Ser Gln Gly Pro Gly Thr Xaa
20 25 30

<210> 83
<211> 374
<212> PRT
<213> Homo sapiens

<400> 83
Met Ser Val Pro Ala Phe Ile Asp Ile Ser Glu Glu Asp Gln Ala Ala
1 5 10 15

Glu Leu Arg Ala Tyr Leu Lys Ser Lys Gly Ala Glu Ile Ser Glu Glu
20 25 30

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Asn Ser Glu Gly Gly Leu His Val Asp Leu Ala Gln Ile Ile Glu Ala
35 40 45

Cys Asp Val Cys Leu Lys Glu Asp Asp Lys Asp Val Glu Ser Val Met
50 55 60

Asn Ser Val Val Ser Leu Leu Ile Leu Glu Pro Asp Lys Gln Glu
65 70 75 80

Ala Leu Ile Glu Ser Leu Cys Glu Lys Leu Val Lys Phe Arg Glu Gly
85 90 95

Glu Arg Pro Ser Leu Arg Leu Gln Leu Leu Ser Asn Leu Phe His Gly
100 105 110

Met Asp Lys Asn Thr Pro Val Arg Tyr Thr Val Tyr Cys Ser Leu Ile
115 120 125

Lys Val Ala Ala Ser Cys Gly Ala Ile Gln Tyr Ile Pro Thr Glu Leu
130 135 140

Asp Gln Val Arg Lys Trp Ile Ser Asp Trp Asn Leu Thr Thr Glu Lys
145 150 155 160

Lys His Thr Leu Leu Arg Leu Leu Tyr Glu Ala Leu Val Asp Cys Lys
165 170 175

Lys Ser Asp Ala Ala Ser Lys Val Met Val Glu Leu Leu Gly Ser Tyr
180 185 190

Thr Glu Asp Asn Ala Ser Gln Ala Arg Val Asp Ala His Arg Cys Ile
195 200 205

Val Arg Ala Leu Lys Asp Pro Asn Ala Phe Leu Phe Asp His Leu Leu
210 215 220

Thr Leu Lys Pro Val Lys Phe Leu Glu Gly Glu Leu Ile His Asp Leu
225 230 235 240

Leu Thr Ile Phe Val Ser Ala Lys Leu Ala Ser Tyr Val Lys Phe Tyr
245 250 255

Gln Asn Asn Lys Asp Phe Ile Asp Ser Leu Gly Leu Leu His Glu Gln
260 265 270

Asn Met Ala Lys Met Arg Leu Leu Thr Phe Met Gly Met Ala Val Glu
275 280 285

Asn Lys Glu Ile Ser Phe Asp Thr Met Gln Gln Glu Leu Gln Ile Gly
290 295 300

Ala Asp Asp Val Glu Ala Phe Val Ile Asp Ala Val Arg Thr Lys Met
305 310 315 320

Val Tyr Cys Lys Ile Asp Gln Thr Gln Arg Lys Val Val Val Ser His
325 330 335

10055551-035500

Ser Thr His Arg Thr Phe Gly Lys Gln Gln Trp Gln Gln Leu Tyr Asp
 340 345 350

Thr Leu Asn Ala Trp Lys Gln Asn Leu Asn Lys Val Lys Asn Ser Leu
 355 360 365

Leu Ser Leu Ser Asp Thr
 370

<210> 84
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 84
 Met Ser Val Pro Ala Phe Ile Asp Ile Ser Glu Glu Asp
 1 5 10

<210> 85
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 85
 Gln Ala Ala Glu Leu Arg Ala Tyr Leu Lys Ser Lys Gly Ala Glu
 1 5 10 15

<210> 86
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 86
 Ile Ser Glu Glu Asn Ser Glu Gly Gly Leu His Val Asp Leu Ala Gln
 1 5 10 15

Ile

<210> 87
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 87
 Ile Glu Ala Cys Asp Val Cys Leu Lys Glu Asp Asp Lys Asp Val Glu
 1 5 10 15

Ser Val

<210> 88
 <211> 16

10055571-005555

<212> PRT

<213> Homo sapiens

<400> 88

Val Ala Arg Pro Ser Ser Leu Phe Arg Ser Ala Trp Ser Cys Glu Trp
1 5 10 15

<210> 89

<211> 12

<212> PRT

<213> Homo sapiens

<400> 89

Leu Arg Leu Gln Leu Leu Ser Asn Leu Phe His Gly
1 5 10

<210> 90

<211> 17

<212> PRT

<213> Homo sapiens

<400> 90

Lys Asp Val Glu Ser Val Met Asn Ser Val Val Ser Leu Leu Leu Ile
1 5 10 15

Leu

<210> 91

<211> 26

<212> PRT

<213> Homo sapiens

<400> 91

Asp Ala Ala Ser Lys Val Met Val Glu Leu Leu Gly Ser Tyr Thr Glu
1 5 10 15

Asp Asn Ala Ser Gln Ala Arg Val Asp Ala
20 25

<210> 92

<211> 10

<212> PRT

<213> Homo sapiens

<400> 92

Val Glu Ala Phe Val Ile Asp Ala Val Arg
1 5 10

<210> 93

<211> 18
 <212> PRT
 <213> Homo sapiens

<400> 93
 Lys Met Arg Leu Leu Thr Phe Met Gly Met Ala Val Glu Asn Lys Glu
 1 5 10 15

Ile Ser

<210> 94
 <211> 196
 <212> PRT
 <213> Homo sapiens

<400> 94
 Met Glu Ala Val Pro Glu Gly Asp Trp Phe Cys Thr Val Cys Leu Ala
 1 5 10 15

Gln Gln Val Glu Gly Glu Phe Thr Gln Lys Pro Gly Phe Pro Lys Arg
 20 25 30

Gly Gln Lys Arg Lys Ser Gly Tyr Ser Leu Asn Phe Ser Glu Gly Asp
 35 40 45

Gly Arg Arg Arg Arg Val Leu Leu Arg Gly Arg Glu Ser Pro Ala Ala
 50 55 60

Gly Pro Arg Tyr Ser Glu Glu Gly Leu Ser Pro Ser Lys Arg Arg Arg
 65 70 75 80

Leu Ser Met Arg Asn His His Ser Asp Leu Thr Phe Cys Glu Ile Ile
 85 90 95

Leu Met Glu Met Glu Ser His Asp Ala Ala Trp Pro Phe Leu Glu Pro
 100 105 110

Val Asn Pro Arg Leu Val Ser Gly Tyr Arg Arg Ile Ile Lys Asn Pro
 115 120 125

Met Asp Phe Ser Thr Met Arg Glu Arg Leu Leu Arg Gly Gly Tyr Thr
 130 135 140

Ser Ser Glu Glu Phe Ala Ala Asp Ala Leu Leu Val Phe Asp Asn Cys
 145 150 155 160

Gln Thr Phe Asn Glu Asp Asp Ser Glu Val Gly Lys Ala Gly His Ile
 165 170 175

Met Arg Arg Phe Phe Glu Ser Arg Trp Glu Glu Phe Tyr Gln Gly Lys
 180 185 190

Gln Ala Asn Leu
 195

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<210> 95
 <211> 20
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<400> 95
 Met Glu Ala Val Pro Glu Gly Asp Trp Phe Cys Thr Val Cys Leu Ala
 1 5 10 15

Gln Gln Val Glu
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<210> 96
 <211> 21
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 <213> Homo sapiens

<400> 96
 Gly Glu Phe Thr Gln Lys Pro Gly Phe Pro Lys Arg Gly Gln Lys Arg
 1 5 10 15

Lys Ser Gly Tyr Ser
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<210> 97
 <211> 21
 <212> PRT
 <213> Homo sapiens

<400> 97
 Leu Asn Phe Ser Glu Gly Asp Gly Arg Arg Arg Arg Val Leu Leu Arg
 1 5 10 15

Gly Arg Glu Ser Pro
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<210> 98
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 98
 Ala Ala Gly Pro Arg Tyr Ser Glu Glu Gly Leu Ser Pro Ser Lys Arg
 1 5 10 15

Arg Arg Leu Ser
 20

<210> 99
 <211> 21
 <212> PRT
 <213> Homo sapiens

<400> 99

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Glu

<210> 104
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 <212> PRT
 <213> Homo sapiens

<400> 104
 Ser Arg Trp Glu Glu Phe Tyr Gln Gly Lys Gln Ala Asn Leu
 1 5 10

<210> 105
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 105
 Met Ser Glu Ile Tyr Leu Arg Cys Gln Asp Glu Gln Gln Tyr Ala Arg
 1 5 10 15
 Trp Met Ala Gly Cys Arg Leu Ala Ser Lys Gly Arg Thr Met Ala Asp
 20 25 30

Ser Ser Tyr
 35

<210> 106
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 106
 Leu Val Ala Pro Arg Phe Gln Arg Lys Phe Lys Ala Lys Gln Leu Thr
 1 5 10 15

Pro Arg Ile Leu Glu Ala His Gln Asn Val Ala Gln Leu Ser Leu Ala
 20 25 30

Glu Ala Gln Leu Arg Phe Ile Gln Ala Trp Gln Ser Leu
 35 40 45

<210> 107
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 107
 Val Gly Asp Val Val Lys Thr Trp Arg Phe Ser Asn Met Arg Gln Trp
 1 5 10 15

Asn Val Asn Trp Asp Ile Arg
 20

<210> 108
 <211> 26

<212> PRT
 <213> Homo sapiens

<400> 108
 Glu Glu Ile Asp Cys Thr Glu Glu Glu Met Met Val Phe Ala Ala Leu
 1 5 10 15

Gln Tyr His Ile Asn Lys Leu Ser Gln Ser
 20 25

<210> 109
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 109
 Glu Glu Ile Asp Cys Thr Glu Glu Glu Met Met Val Phe Ala Ala Leu
 1 5 10 15

Gln Tyr His Ile Asn Lys Leu Ser Gln Ser
 20 25

<210> 110
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 110
 Lys Glu Leu Ser Phe Ala Arg Ile Lys Ala Val Glu Cys Val Glu Ser
 1 5 10 15

Thr Gly Arg His Ile Tyr Phe Thr Leu Val
 20 25

<210> 111
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 111
 Gly Trp Asn Ala Gln Ile Thr Leu Gly Leu Val Lys Phe Lys Asn Gln
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Gln

<210> 112
 <211> 217
 <212> PRT
 <213> Homo sapiens

<220>
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 <222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (83)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

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<222> (123)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (194)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 112

Met Val Thr Thr Ile Val Leu Gly Arg Arg Phe Ile Gly Ser Ile Val
1 5 10 15

Lys Glu Ala Ser Gln Arg Gly Lys Val Ser Leu Phe Arg Ser Ile Leu
20 25 30

Leu Phe Leu Thr Arg Phe Thr Val Leu Thr Ala Thr Gly Trp Ser Leu
35 40 45

Cys Arg Ser Leu Ile His Leu Phe Arg Thr Tyr Ser Phe Leu Asn Leu
50 55 60

Leu Phe Leu Cys Tyr Pro Phe Gly Met Tyr Ile Pro Phe Leu Gln Leu
65 70 75 80

Asn Xaa Xaa Leu Arg Lys Thr Ser Leu Phe Asn His Met Ala Ser Met
85 90 95

Gly Pro Arg Glu Ala Val Ser Gly Leu Ala Lys Ser Arg Asp Tyr Leu
100 105 110

Leu Thr Leu Arg Glu Thr Trp Lys Gln His Xaa Arg Gln Leu Tyr Gly
115 120 125

Pro Asp Ala Met Pro Thr His Ala Cys Cys Leu Ser Pro Ser Leu Ile
130 135 140

Arg Ser Glu Val Glu Phe Leu Lys Met Asp Phe Asn Trp Arg Met Lys
145 150 155 160

Glu Val Leu Val Ser Ser Met Leu Ser Ala Tyr Tyr Val Ala Phe Val
165 170 175

Pro Val Trp Phe Val Lys Asn Thr His Tyr Tyr Asp Lys Arg Trp Ser
180 185 190

Cys Xaa Thr Leu Pro Ala Gly Val His Gln His Leu Arg Asp Pro His
195 200 205

Ala Ala Pro Ala Ala Cys Gln Leu Leu

210

215

<210> 113

<211> 26

<212> PRT

<213> Homo sapiens

<400> 113

Met Val Thr Thr Ile Val Leu Gly Arg Arg Phe Ile Gly Ser Ile Val
 1 5 10 15

Lys Glu Ala Ser Gln Arg Gly Lys Val Ser
 20 25

<210> 114

<211> 23

<212> PRT

<213> Homo sapiens

<400> 114

Leu Phe Arg Ser Ile Leu Leu Phe Leu Thr Arg Phe Thr Val Leu Thr
 1 5 10 15

Ala Thr Gly Trp Ser Leu Cys
 20

<210> 115

<211> 30

<212> PRT

<213> Homo sapiens

<400> 115

Arg Ser Leu Ile His Leu Phe Arg Thr Tyr Ser Phe Leu Asn Leu Leu
 1 5 10 15

Phe Leu Cys Tyr Pro Phe Gly Met Tyr Ile Pro Phe Leu Gln
 20 25 30

<210> 116

<211> 30

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 116

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Leu Asn Xaa Xaa Leu Arg Lys Thr Ser Leu Phe Asn His Met Ala Ser
 1 5 10 15

Met Gly Pro Arg Glu Ala Val Ser Gly Leu Ala Lys Ser Arg
 20 25 30

<210> 117
 <211> 30
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (14)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 117
 Asp Tyr Leu Leu Thr Leu Arg Glu Thr Trp Lys Gln His Xaa Arg Gln
 1 5 10 15

Leu Tyr Gly Pro Asp Ala Met Pro Thr His Ala Cys Cys Leu
 20 25 30

<210> 118
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 118
 Ser Pro Ser Leu Ile Arg Ser Glu Val Glu Phe Leu Lys Met Asp Phe
 1 5 10 15

Asn Trp Arg Met Lys Glu Val Leu Val Ser Ser Met Leu Ser Ala
 20 25 30

<210> 119
 <211> 27
 <212> PRT
 <213> Homo sapiens

<220>
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 <222> (24)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 119
 Tyr Tyr Val Ala Phe Val Pro Val Trp Phe Val Lys Asn Thr His Tyr
 1 5 10 15

Tyr Asp Lys Arg Trp Ser Cys Xaa Thr Leu Pro
 20 25

<210> 120
 <211> 20

<213> Homo sapiens

<400> 124

Phe Ile Lys Tyr Val Leu Ser Asp Lys Glu Lys Lys Val Phe Gly Ile
1 5 10 15

Val

<210> 125

<211> 13

<212> PRT

<213> Homo sapiens

<400> 125

Ile Pro Met Gln Val Leu Ala Asn Val Ala Tyr Ile Ile
1 5 10

<210> 126

<211> 13

<212> PRT

<213> Homo sapiens

<400> 126

Ile Pro Met Gln Val Leu Ala Asn Val Ala Tyr Ile Ile
1 5 10

<210> 127

<211> 15

<212> PRT

<213> Homo sapiens

<400> 127

Asp Gly Lys Val Ala Val Asn Leu Ala Lys Leu Lys Leu Phe Arg
1 5 10 15

<210> 128

<211> 13

<212> PRT

<213> Homo sapiens

<400> 128

Ile Arg Glu Lys Asn Pro Asp Gly Phe Leu Ser Ala Ala
1 5 10

<210> 129

<211> 9

<212> PRT

<213> Homo sapiens

<400> 129

Met Met Phe Gly Gly Tyr Glu Thr Ile
1 5

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<210> 130
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 130
 Tyr Arg Asp Glu Ser Ser Ser Glu Leu Ser Val Asp Ser Glu Val Glu
 1 5 10 15
 Phe Gln Leu Tyr Ser Gln Ile His
 20

<210> 131
 <211> 136
 <212> PRT
 <213> Homo sapiens

<400> 131
 Tyr Ala Gln Asp Leu Asp Asp Val Ile Arg Glu Glu Glu His Glu Glu
 1 5 10 15
 Lys Asn Ser Gly Asn Ser Glu Ser Ser Ser Ser Lys Pro Asn Gln Lys
 20 25 30
 Lys Leu Ile Val Leu Ser Asp Ser Glu Val Ile Gln Leu Ser Asp Gly
 35 40 45
 Ser Glu Val Ile Thr Leu Ser Asp Glu Asp Ser Ile Tyr Arg Cys Lys
 50 55 60
 Gly Lys Asn Val Arg Val Gln Ala Gln Glu Asn Ala His Gly Leu Ser
 65 70 75 80
 Ser Ser Leu Gln Ser Asn Glu Leu Val Asp Lys Lys Cys Lys Ser Asp
 85 90 95
 Ile Glu Lys Pro Lys Ser Glu Glu Arg Ser Gly Val Ile Arg Glu Val
 100 105 110
 Met Ile Ile Glu Val Ser Ser Ser Glu Glu Glu Glu Ser Thr Ile Ser
 115 120 125
 Glu Gly Asp Asn Val Glu Ser Trp
 130 135

<210> 132
 <211> 37
 <212> PRT
 <213> Homo sapiens

<400> 132
 Met Leu Leu Gly Cys Glu Val Asp Asp Lys Asp Asp Asp Ile Leu Leu
 1 5 10 15

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Ser Cys Leu Phe Arg His Ser Trp Asp Lys Gln Cys Asp Arg Cys His
35 40 45

Val Leu Ser Trp Lys Arg Val Gln Gly Ala Ser Gly Lys Leu Gln Ala
115 120 125

| | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| Phe | Gly | Phe | Cys | Glu | Tyr | Lys | Glu | Pro | Glu | Ser | Thr | Leu | Arg | Ala | Leu | |
| 130 | | | | | | 135 | | | | | | 140 | | | | |
| Arg | Leu | Leu | His | Asp | Leu | Gln | Ile | Gly | Glu | Lys | Lys | Leu | Leu | Val | Lys | |
| 145 | | | | | 150 | | | | | 155 | | | | | 160 | |
| Val | Asp | Ala | Lys | Thr | Lys | Ala | Gln | Leu | Asp | Glu | Trp | Lys | Ala | Lys | Lys | |
| | | | | 165 | | | | | 170 | | | | | 175 | | |
| Lys | Ala | Ser | Asn | Gly | Asn | Ala | Arg | Pro | Glu | Thr | Val | Thr | Asn | Asp | Asp | |
| | | | 180 | | | | | 185 | | | | | 190 | | | |
| Glu | Glu | Ala | Leu | Asp | Glu | Glu | Thr | Lys | Arg | Arg | Asp | Gln | Met | Ile | Lys | |
| | | 195 | | | | | 200 | | | | | 205 | | | | |
| Gly | Ala | Ile | Glu | Val | Leu | Ile | Arg | Glu | Tyr | Ser | Ser | Glu | Leu | Asn | Ala | |
| | 210 | | | | | 215 | | | | | 220 | | | | | |
| Pro | Ser | Gln | Glu | Ser | Asp | Ser | His | Pro | Arg | Lys | Lys | Lys | Lys | Glu | Lys | |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 | |
| Lys | Glu | Asp | Ile | Phe | Arg | Arg | Phe | Pro | Val | Ala | Pro | Leu | Ile | Pro | Tyr | |
| | | | | 245 | | | | | 250 | | | | | 255 | | |
| Pro | Leu | Ile | Thr | Lys | Glu | Asp | Ile | Asn | Ala | Ile | Glu | Met | Glu | Glu | Asp | |
| | | | 260 | | | | | 265 | | | | | 270 | | | |
| Lys | Arg | Asp | Leu | Ile | Ser | Arg | Glu | Ile | Ser | Lys | Phe | Arg | Asp | Thr | His | |
| | | 275 | | | | | 280 | | | | | 285 | | | | |
| Lys | Lys | Leu | Glu | Glu | Glu | Lys | Gly | Lys | Lys | Glu | Lys | Glu | Arg | Gln | Glu | |
| | 290 | | | | | 295 | | | | | 300 | | | | | |
| Ile | Glu | Lys | Glu | Arg | Arg | Glu | Arg | Glu | Arg | Glu | Arg | Glu | Arg | Glu | Arg | |
| 305 | | | | | 310 | | | | | 315 | | | | | 320 | |
| Glu | Arg | Arg | Glu | Arg | Glu | Arg | Glu | Arg | Glu | Arg | Glu | Arg | Glu | Arg | Glu | |
| | | | | 325 | | | | | 330 | | | | | 335 | | |
| Lys | Glu | Lys | Glu | Arg | Glu | Arg | Glu | Arg | Glu | Arg | Asp | Arg | Asp | Arg | Asp | |
| | | | 340 | | | | | 345 | | | | | 350 | | | |
| Arg | Thr | Lys | Glu | Arg | Asp | Arg | Asp | Arg | Asp | Arg | Glu | Arg | Asp | Arg | Asp | |
| | | 355 | | | | | 360 | | | | | | 365 | | | |
| Arg | Asp | Arg | Glu | Arg | Ser | Ser | Asp | Arg | Asn | Lys | Asp | Arg | Ile | Arg | Ser | |
| | 370 | | | | | 375 | | | | | 380 | | | | | |
| Arg | Glu | Lys | Ser | Arg | Asp | Arg | Glu | Arg | Glu | Arg | Glu | Arg | Glu | Arg | Glu | |
| 385 | | | | | 390 | | | | | 395 | | | | | 400 | |
| Arg | Glu | Arg | Glu | Arg | Glu | Arg | Glu | Arg | Glu | Arg | Glu | Arg | Glu | Arg | Glu | |
| | | | | 405 | | | | | 410 | | | | | | 415 | |

<210> 137
 <211> 43
 <212> PRT
 <213> Homo sapiens

<400> 137
 Met Ser Phe Pro Pro His Leu Asn Arg Pro Pro Met Gly Ile Pro Ala
 1 5 10 15
 Leu Pro Pro Gly Ile Pro Pro Pro Gln Phe Pro Gly Phe Pro Pro Pro
 20 25 30
 Val Pro Pro Gly Thr Pro Met Ile Pro Val Pro
 35 40

<210> 138
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 138
 Met Ser Ile Met Ala Pro Ala Pro Thr Val Leu Val Pro Thr Val Ser
 1 5 10 15
 Met Val Gly Lys His Leu Gly Ala Arg Lys Asp His Pro Gly Leu Lys
 20 25 30
 Ala Lys Glu
 35

<210> 139
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 139
 Asn Asp Glu Asn Cys Gly Pro Thr Thr Thr Val Phe Val Gly Asn Ile
 1 5 10 15
 Ser Glu Lys Ala Ser Asp Met Leu Ile Arg Gln Leu Leu Ala Lys Cys
 20 25 30
 Gly Leu Val Leu Ser Trp Lys Arg Val
 35 40

<210> 140
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 140
 Gln Gly Ala Ser Gly Lys Leu Gln Ala Phe Gly Phe Cys Glu Tyr Lys
 1 5 10 15
 Glu Pro Glu Ser Thr Leu Arg Ala Leu Arg Leu Leu His Asp Leu Gln

20

25

30

Ile Gly Glu Lys Lys Leu Leu Val
35 40

<210> 141
<211> 39
<212> PRT
<213> Homo sapiens

<400> 141
Lys Val Asp Ala Lys Thr Lys Ala Gln Leu Asp Glu Trp Lys Ala Lys
1 5 10 15

Lys Lys Ala Ser Asn Gly Asn Ala Arg Pro Glu Thr Val Thr Asn Asp
20 25 30

Asp Glu Glu Ala Leu Asp Glu
35

<210> 142
<211> 40
<212> PRT
<213> Homo sapiens

<400> 142
Glu Thr Lys Arg Arg Asp Gln Met Ile Lys Gly Ala Ile Glu Val Leu
1 5 10 15

Ile Arg Glu Tyr Ser Ser Glu Leu Asn Ala Pro Ser Gln Glu Ser Asp
20 25 30

Ser His Pro Arg Lys Lys Lys Lys
35 40

<210> 143
<211> 44
<212> PRT
<213> Homo sapiens

<400> 143
Glu Lys Lys Glu Asp Ile Phe Arg Arg Phe Pro Val Ala Pro Leu Ile
1 5 10 15

Pro Tyr Pro Leu Ile Thr Lys Glu Asp Ile Asn Ala Ile Glu Met Glu
20 25 30

Glu Asp Lys Arg Asp Leu Ile Ser Arg Glu Ile Ser
35 40

<210> 144
<211> 41
<212> PRT
<213> Homo sapiens

<212> PRT
 <213> Homo sapiens

<400> 147
 Lys Pro Gln Met Glu Gly Arg Leu Val Gly Gly Gly Ser Phe Ser
 1 5 10 15

Ser Arg Gly Arg His Pro
 20

<210> 148
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 148
 Leu Leu Val Pro Ser Pro Ser Leu Leu Pro Ala Val Ser Ser Tyr His
 1 5 10 15

Leu Pro Leu Gly Arg Gly Leu Ile Arg
 20 25

<210> 149
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 149
 Glu Gln Gly Ser Ala Val Arg Ser Pro Ala Phe Pro Val Arg Gln Ala
 1 5 10 15

Trp Leu Pro Cys Ser Gly Ser
 20

<210> 150
 <211> 151
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (123)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 150
 Met Gly Leu Asn Pro Pro Gly Leu Thr Ser Ala Leu Lys Pro Gln Met
 1 5 10 15

Glu Gly Arg Leu Val Gly Gly Gly Gly Ser Phe Ser Ser Arg Gly Arg
 20 25 30

His Pro Ala Gly Trp Val Leu Pro Gln Pro Cys Leu Leu Leu Ser Pro
 35 40 45

Thr Leu Ser Phe Pro Pro Ala Cys Gly Leu Leu Val Pro Ser Pro Ser

50 55 60
 Leu Leu Pro Ala Val Ser Ser Tyr His Leu Pro Leu Gly Arg Gly Leu
 65 70 75 80
 Ile Arg Pro Ala Phe Lys Ile Lys Val Cys Ser Lys Leu Thr Val Trp
 85 90 95
 Cys Ser Leu Pro Ser Pro Ser Arg Trp Arg Cys Cys His Gly Asn Ala
 100 105 110
 Val Ala Leu Pro Ala Leu Gly Pro Trp Arg Xaa Trp Glu Gln Gly Ser
 115 120 125
 Ala Val Arg Ser Pro Ala Phe Pro Val Arg Gln Ala Trp Leu Pro Cys
 130 135 140
 Ser Gly Ser Leu Thr Ser Trp
 145 150

<210> 151
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 151
 Asn Val Thr Lys Ile Thr Leu Glu Ser Phe Leu Ala Trp Lys Lys Arg
 1 5 10 15
 Lys Arg Gln Glu Lys Ile Asp Lys Leu Glu Gln Asp Met Glu Arg Arg
 20 25 30
 Lys Ala Asp Phe Lys Ala Gly Lys Ala Leu Val Ile Ser Gly Arg Glu
 35 40 45
 Val Phe Glu Phe Arg Pro Glu Leu Val Asn Asp Asp Asp Glu Glu Ala
 50 55 60

<210> 152
 <211> 22
 <212> PRT
 <213> Homo sapiens

<400> 152
 Glu Arg Arg Lys Ala Asp Phe Lys Ala Gly Lys Ala Leu Val Ile Ser
 1 5 10 15
 Gly Arg Glu Val Phe Glu
 20

<210> 153
 <211> 89

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (81)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 153

Met Cys Asp Glu Leu Pro Gly Glu Gly Arg Trp Glu Pro Gly Gln Asp
 1 5 10 15

Arg Lys Leu Cys Leu Ser Phe Pro Leu Gly Thr Pro Ala Arg Pro Ile
 20 25 30

Lys Ser Val Cys Pro Thr Leu Leu Ser Leu Val Phe Leu Ser Arg Gly
 35 40 45

Met Glu Gln Arg Val Arg Glu Ala Val Ala Val Ser Thr Ser Ala Pro
 50 55 60

Ala Pro Ser Ala Ser Glu Pro Phe Leu Ser Trp Gly Met Gly Leu Ala
 65 70 75 80

Xaa Phe Ser Phe Pro Phe Leu Tyr Leu
 85

<210> 154

<211> 95

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 154

Gly Ala Ser Leu Gly Ser Ser Ser Ser Cys Pro Ser His Ser Trp Trp
 1 5 10 15

Gly Gln Arg Ser Val Cys Arg Glu Thr Ala Ser Pro Leu Pro Arg Trp
 20 25 30

Met Leu Tyr Leu Asp Gly Leu Ala Thr Ser His Phe Leu His His Pro
 35 40 45

Glu Pro His Leu Leu Pro Ser Pro Gly Val Phe Thr Arg Leu Cys Cys
 50 55 60

His Leu Cys Pro Gly His Xaa Ser Leu Ser Gly Cys Val Met Asn Ser
 65 70 75 80

Gln Glu Arg Glu Asp Gly Ser Gln Gly Lys Ile Gly Ser Ser Ala
 85 90 95

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<210> 155
 <211> 125
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (30)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (115)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 155
 Thr Ser Val Leu Ser Ser Ser Ser Val Tyr Cys Met Gln Ala Arg Lys
 1 5 10 15

Leu Ser Val Ser Gln Arg Tyr Arg Lys Gly Lys Glu Lys Xaa Ala Arg
 20 25 30

Pro Ile Pro Gln Glu Arg Lys Gly Ser Asp Ala Glu Gly Ala Gly Ala
 35 40 45

Glu Val Glu Thr Ala Thr Ala Ser Leu Thr Leu Cys Ser Ile Pro Leu
 50 55 60

Leu Lys Lys Thr Arg Leu Ser Arg Val Gly Gln Thr Leu Phe Ile Gly
 65 70 75 80

Leu Ala Gly Val Pro Ser Gly Lys Leu Arg Gln Ser Phe Leu Ser Cys
 85 90 95

Pro Gly Ser His Leu Pro Ser Pro Gly Ser Ser Ser His Ile Pro Arg
 100 105 110

Gly Lys Xaa Val Leu Gly Arg Gly Gly Ser Lys Ala Gly
 115 120 125

<210> 156
 <211> 125
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (13)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (97)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 156
 Ala Leu Val Lys Gly Thr Gly Arg Glu Lys Arg Arg Xaa Gln Gly Pro

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<210> 157
<211> 32
<212> PRT
<213> Homo sapiens

<400> 157
Ser Phe Pro Leu Gly Thr Pro Ala Arg Pro Ile Lys Ser Val Cys Pro
 1             5             10             15

Thr Leu Leu Ser Leu Val Phe Leu Ser Arg Gly Met Glu Gln Arg Val
      20             25             30

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<400> 158
Thr Ala Ser  Pro Leu Pro Arg Trp Met  Leu Tyr Leu Asp Gly Leu Ala
  1              5              10              15

Thr Ser His  Phe Leu His His  Pro Glu Pro His Leu Leu Pro Ser
      20              25              30

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<210> 159
<211> 31
<212> PRT
<213> Homo sapiens
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65

70

<210> 163
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 163
 Ala His Ser Phe Thr Thr Pro Glu Glu Ala Arg Gly Ala Gly Ser Met
 1 5 10 15
 Gly Cys Arg Phe Pro Phe Lys His Thr His Ser Pro His Pro Arg Arg
 20 25 30
 Pro Glu Val Gln Gly Ala Trp Ala Gly Cys Thr Ser Ala Gly Glu Lys
 35 40 45
 Ala Glu Pro Pro Pro Ser Arg Glu Pro Gly Ser Gln Ala Ser Arg Phe
 50 55 60
 Pro Leu Pro Pro
 65

<210> 164
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 164
 Gly Trp Gln Asp Thr Ser Cys Arg Asp Thr Ser Cys Ala Ala Leu Arg
 1 5 10 15
 Gly Gly Leu Gln Thr Leu Phe Pro Ala
 20 25

<210> 165
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 165
 Gly Cys Arg Phe Pro Phe Lys His Thr His Ser Pro His Pro Arg Arg
 1 5 10 15
 Pro Glu Val Gln Gly Ala Trp Ala
 20

<210> 166
 <211> 81
 <212> PRT
 <213> Homo sapiens

<400> 166
 Pro His Gln Val Glu Gly Arg Leu Gly Thr Met Glu Thr Trp Asp Ser

1055531 06550

1 5 10 15
 Ser His Glu Gly Leu Leu His Cys Arg Ile Pro Leu Lys Gly Ser Trp
 20 25 30
 Val Gln Glu Pro Ser Cys Gln Tyr Gln Trp Arg Arg Thr Arg Cys Met
 35 40 45
 Gly Ile Pro Pro Ala Thr Ser Gly Trp Pro Cys Arg Ala Pro Ala Phe
 50 55 60
 Leu Cys Ala Arg Ala Glu Phe Pro Ala Ser Pro Gly Gly Ser Thr Asn
 65 70 75 80
 Phe

<210> 167
 <211> 81
 <212> PRT
 <213> Homo sapiens

<400> 167
 Leu Val Thr Pro Pro Ser Gly Gly Glu Thr Gly Asp His Gly Asn Met
 1 5 10 15
 Gly Gln Leu Pro Arg Arg Ala Leu Ala Leu Gln Asn Ser Thr Gln Gly
 20 25 30
 Ile Leu Gly Pro Gly Ala Glu Leu Pro Val Ser Val Glu Lys Asp Lys
 35 40 45
 Val His Gly Asp Pro Ala Ser Asn Ile Arg Met Ala Met Pro Gly Thr
 50 55 60
 Arg Phe Pro Leu Cys Ser Cys Arg Ile Pro Cys Gln Pro Gly Gly Ile
 65 70 75 80
 His

<210> 168
 <211> 32
 <212> PRT
 <213> Homo sapiens

<400> 168
 Glu Gly Leu Leu His Cys Arg Ile Pro Leu Lys Gly Ser Trp Val Gln
 1 5 10 15
 Glu Pro Ser Cys Gln Tyr Gln Trp Arg Arg Thr Arg Cys Met Gly Ile
 20 25 30

<210> 169
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 169
 Gln Asn Ser Thr Gln Gly Ile Leu Gly Pro Gly Ala Glu Leu Pro Val
 1 5 10 15
 Ser Val Glu Lys Asp Lys Val His Gly Asp Pro Ala Ser
 20 25

<210> 170
 <211> 42
 <212> PRT
 <213> Homo sapiens

<400> 170
 Phe Gly Thr Arg Lys Lys Tyr His Leu Cys Met Ile Pro Asn Leu Asp
 1 5 10 15
 Leu Asn Leu Asp Arg Asp Leu Val Leu Pro Asp Val Ser Tyr Gln Val
 20 25 30
 Glu Ser Ser Glu Glu Asp Gln Ser Gln Thr
 35 40

<210> 171
 <211> 115
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (88)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 171
 Phe Leu Leu Ser Leu Gly Ser Leu Val Met Leu Leu Gln Asp Leu Val
 1 5 10 15
 His Ser Glu Leu Asp Gly Thr Leu His Tyr Thr Val Ala Leu His Lys
 20 25 30
 Asp Gly Ile Glu Met Ser Cys Glu Gln Ser Ile Asp Ser Pro Asp Phe
 35 40 45
 His Leu Leu Asp Trp Lys Cys Thr Val Glu Ile His Lys Glu Lys Lys
 50 55 60
 Gln Gln Ser Leu Ser Leu Arg Ile His Ser Leu Arg Leu Ile Leu Leu
 65 70 75 80
 Thr Gly Phe His Leu Ile Thr Xaa Ile Trp Lys His Gln Ile Ser Ile
 85 90 95


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<210> 175
<211> 24
<212> PRT
<213> Homo sapiens
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<400> 175

Ala Cys Ser Ser Ala Cys Ile Cys Phe Cys Asp Arg Gly Pro Cys Leu
 1 5 10 15

Gly Trp Asn Asp Pro Asp Arg Met
 20

<210> 176

<211> 26

<212> PRT

<213> Homo sapiens

<400> 176

Thr Ala Gly Cys Asp Ser Tyr Thr Pro Lys Val Ile Gln Cys Gln Asn
 1 5 10 15

Lys Gly Trp Asp Gly Tyr Asp Val Gln Trp
 20 25

<210> 177

<211> 32

<212> PRT

<213> Homo sapiens

<400> 177

Glu Tyr Asn Leu Asp Tyr Thr Glu Leu Gly Leu Gln Lys Leu Lys Glu
 1 5 10 15

Ser Gly Lys Gln His Gly Phe Ala Ser Phe Ser Asp Tyr Tyr Tyr Lys
 20 25 30

<210> 178

<211> 28

<212> PRT

<213> Homo sapiens

<400> 178

Tyr Lys Leu Phe Leu Ser Asp Gly Gln Tyr Ser Pro Pro Pro Tyr Ser
 1 5 10 15

Glu Tyr Pro Pro Phe Ser His Arg Tyr Gln Arg Phe
 20 25

<210> 179

<211> 26

<212> PRT

<213> Homo sapiens

<400> 179

Glu Asn Ser Gly Pro Gly Phe Trp Thr Gly Leu Gly Thr Gly Gly Ile

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1           5           10           15
Leu Gly Tyr Leu Phe Gly Ser Asn Arg Ala
      20                25

<210> 180
<211> 25
<212> PRT
<213> Homo sapiens

<400> 180
Asn Arg Ala Tyr Ser Pro Leu His Gly Gly Ser Gly Ser Tyr Ser Val
  1           5                10                15

Cys Ser Asn Ser Asp Thr Lys Thr Arg
      20                25

<210> 181
<211> 124
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (31)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (32)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 181
Thr Glu Ser Gln Met Lys Cys Phe Leu Gly Asn Ser His Asp Thr Ala
  1           5                10                15

Pro Arg His Thr Cys Ser Gly Gln Gly Leu His Gly Gly Xaa Xaa Xaa
      20                25                30

Thr Ala Pro Leu Arg Ala Leu Gln Gln His Ser Gln Asp Gly Lys Leu
      35                40                45

Cys Thr Asn Ser Leu Pro Ala Ala Arg Gly Gly Pro His Lys His Val
      50                55                60

Val Val Thr Val Val Tyr Ser Val Lys His Trp Lys Pro Thr Glu Arg
      65                70                75                80

Ser Ser Val Ser Ile Lys Lys Glu Glu Glu Thr Asp Trp Asp Met Asp
      85                90                95

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Thr Asn Ser Leu Pro Ala Ala Arg Gly Gly Pro His Lys His
20 25 30

<213> Homo sapiens

Asp Gln Leu Ser Lys Gln Arg Thr Thr Tyr Glu
20 25

<213> Homo sapiens

Pro Leu Pro Val Gly Ala Pro Thr Asn Thr Leu Ser Ser
20 25

<213> Homo sapiens

Leu

<213> Homo sapiens

Arg Cys Val Ser Ile Tyr Leu Ile Asn Leu Leu Thr Ala Asp Phe Leu

30

Pro Trp Lys Leu Lys Ile Phe His Cys Gln Val Thr Ala Cys Leu Ile
50 55 60

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<210> 188
<211> 31
<212> PRT
<213> Homo sapiens
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<400> 188
Lys Asn Thr Asn His Arg Cys Val Ser Ile Tyr Leu Ile Asn Leu Leu
1 5 10 15

Thr Ala Asp Phe Leu Leu Thr Leu Ala Leu Pro Val Lys Ile Val
20 25 30

```
<210> 189
<211> 17
<212> PRT
<213> Homo sapiens
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<400> 189
Lys His Thr Val Glu Thr Arg Ser Val Ala Phe Arg Lys Gln Leu Asn
1 5 10 15

Arg

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<210> 190
<211> 30
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (18)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>  
<221> SITE  
<222> (29)  
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 190
Pro Gln Val Leu His Leu Arg Trp Leu Pro Lys Val Leu Gly Tyr Arg
1 5 10 15

Ser Xaa Pro Leu Arg Leu Ala Asp Pro Ser Thr Phe Xaa Met

30

<400> 191

Pro Ser Gly
130

<400> 192

Pro Leu Leu Gln Val Ala Leu Pro
20

<400> 193

Pro Ser Pro Gln Gly Glu Val Arg Phe Leu Arg Ser Pro Arg Met Gly
1 5 10 15

Met Gln Asn Lys Pro Arg Ala Pro Gln Lys Arg Ala Leu Pro Phe Pro
 1 5 10 15

Glu Leu Glu Leu Arg Asp Tyr Ala Ser Val Leu Thr Arg Tyr Ser Leu
 20 25 30

Gly Leu Arg Asn Lys Glu Pro Ser Leu Gly His Arg Trp Gly Thr Gln
 35 40 45

Lys Leu Gly Arg Ser Pro Cys Ser Glu Gly Ser Gln Gly His Thr Thr
 50 55 60

Asp Ala Ala Asp Val Gln Asn His Ser Lys Glu Glu Gln Arg Asp Ala
 65 70 75 80

Gly Ala Gln Arg Xaa Cys Gly Gln Gly Arg His Thr Trp Ala Tyr Arg
 85 90 95

Xaa Gly Ala Gln Asp Thr Ser Arg Leu Thr Gly Asp Pro Arg Gly Gly
 100 105 110

Glu Arg Ser Pro Pro Lys Cys Gln Ser Met Lys Gln Gln Glu Gly Ala
 115 120 125

Pro Ser Gly His Cys Trp Asp Gln Trp Cys His Gly Ala Ser Glu Val
 130 135 140

Val Trp Pro Glu Ser Arg Lys Arg Ala Gln Ile Phe Xaa Ser Pro Cys
 145 150 155 160

Arg Gln Ser Pro Arg Ser Ser Ala Leu Gly Ala Gly Gln Lys Leu Ala
 165 170 175

Val Cys Ser Pro Asp Ile Leu Cys Cys Pro Thr Asp Thr Leu Leu Ala
 180 185 190

Ser His Pro His Ser Leu Leu Thr Gly Thr Gln Phe Ser Gly Gln Thr
 195 200 205

Gln Ala Leu Ala Pro Ser Trp Cys Ala
 210 215

<210> 197
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 197
 Ala Pro Gln Lys Arg Ala Leu Pro Phe Pro Glu Leu Glu Leu Arg Asp
 1 5 10 15

Tyr Ala Ser Val Leu Thr Arg Tyr Ser Leu
 20 25

<210> 198
 <211> 27

<212> PRT
 <213> Homo sapiens

<400> 198
 Ala Pro Gln Lys Arg Ala Leu Pro Phe Pro Glu Leu Glu Leu Arg Asp
 1 5 10 15

Tyr Ala Ser Val Leu Thr Arg Tyr Ser Leu Gly
 20 25

<210> 199
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 199
 Leu Gly Arg Ser Pro Cys Ser Glu Gly Ser Gln Gly His Thr Thr Asp
 1 5 10 15

Ala Ala Asp Val Gln Asn His Ser Lys Glu Glu Gln Arg
 20 25

<210> 200
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 200
 Thr Asp Thr Leu Leu Ala Ser His Pro His Ser Leu Leu Thr Gly Thr
 1 5 10 15

Gln Phe Ser Gly Gln Thr Gln Ala Leu
 20 25

<210> 201
 <211> 77
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (13)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (18)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (39)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 201

15563531 03500

Ile Ala Gln Val Leu Lys Ala Glu Met Cys Leu Val Xaa Arg Pro His
1 5 10 15

Pro Xaa Leu Leu Asp Ser His Arg Gly Trp Ala Gly Glu Thr Leu Arg
20 25 30

Gly Gln Gly Arg Gln Glu Xaa Glu Ser Asp Thr Lys Ala Gly Thr Leu
35 40 45

Gln Leu Gln Arg Gln Ala Pro Leu Pro Leu Thr Gln His Ser Leu Val
50 55 60

Leu Pro Ile Ser Pro Gly Pro Ser Asn His Thr Gln Ser
65 70 75

<210> 202

<211> 20

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 202

Arg Gly Trp Ala Gly Glu Thr Leu Arg Gly Gln Gly Arg Gln Glu Xaa
1 5 10 15

Glu Ser Asp Thr
20

<210> 203

<211> 20

<212> PRT

<213> Homo sapiens

<400> 203

Ala Pro Leu Pro Leu Thr Gln His Ser Leu Val Leu Pro Ile Ser Pro
1 5 10 15

Gly Pro Ser Asn
20

<210> 204

<211> 166

<212> PRT

<213> Homo sapiens

<400> 204

Asn Arg Glu Arg Gly Gly Ala Gly Ala Thr Phe Glu Cys Asn Ile Cys
1 5 10 15

Leu Glu Thr Ala Arg Glu Ala Val Val Ser Val Cys Gly His Leu Tyr
20 25 30

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<210> 205
<211> 149
<212> PRT
<213> Homo sapiens
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<400> 205
Asn Arg Glu Arg Gly Gly Ala Gly Ala Thr Phe Glu Cys Asn Ile Cys
 1          5          10          15
Leu Glu Thr Ala Arg Glu Ala Val Val Ser Val Cys Gly His Leu Tyr
          20          25          30
Cys Trp Pro Cys Leu His Gln Trp Leu Glu Thr Arg Pro Glu Arg Gln
          35          40          45
Glu Cys Pro Val Cys Lys Ala Gly Ile Ser Arg Glu Lys Val Val Pro
          50          55          60
Leu Tyr Gly Arg Gly Ser Gln Lys Pro Gln Asp Pro Arg Leu Lys Thr
          65          70          75          80
Pro Pro Arg Pro Gln Gly Gln Arg Pro Ala Pro Glu Ser Arg Gly Gly
          85          90          95
Phe Gln Pro Phe Gly Asp Thr Gly Gly Phe His Phe Ser Phe Gly Val
          100          105          110
Gly Ala Phe Pro Phe Gly Phe Phe Thr Thr Val Phe Asn Ala His Glu
          115          120          125

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Pro Phe Arg Arg Gly Thr Gly Val Asp Leu Gly Gln Gly His Pro Ala
130 135 140

Ser Ser Trp Gln Asp
145

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<210> 206
<211> 41
<212> PRT
<213> Homo sapiens
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<400> 206
Asn Arg Glu Arg Gly Gly Ala Gly Ala Thr Phe Glu Cys Asn Ile Cys
1 5 10 15

Leu Glu Thr Ala Arg Glu Ala Val Val Ser Val Cys Gly His Leu Tyr
20 25 30

Cys Trp Pro Cys Leu His Gln Trp Leu
35 40

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<210> 207
<211> 38
<212> PRT
<213> Homo sapiens
```

<400> 207
Glu Thr Arg Pro Glu Arg Gln Glu Cys Pro Val Cys Lys Ala Gly Ile
1 5 10 15

Ser Arg Glu Lys Val Val Pro Leu Tyr Gly Arg Gly Ser Gln Lys Pro
20 25 30

Gln Asp Pro Arg Leu Lys
35

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<210> 208
<211> 34
<212> PRT
<213> Homo sapiens
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<400> 208
Thr Pro Pro Arg Pro Gln Gly Gln Arg Pro Ala Pro Glu Ser Arg Gly
1 5 10 15

Gly Phe Gln Pro Phe Gly Asp Thr Gly Gly Phe His Phe Ser Phe Gly
20 25 30

Val Gly

<210> 209
<211> 36

<212> PRT

<213> Homo sapiens

<400> 209

Ala Phe Pro Phe Gly Phe Phe Thr Thr Val Phe Asn Ala His Glu Pro
1 5 10 15

Phe Arg Arg Gly Thr Gly Val Asp Leu Gly Gln Gly His Pro Ala Ser
20 25 30

Ser Trp Gln Asp
35

<210> 210

<211> 15

<212> PRT

<213> Homo sapiens

<400> 210

Gly Leu Ser Thr Gly Pro Asp Met Ala Ser Leu Asp Leu Phe Val
1 5 10 15

<210> 211

<211> 97

<212> PRT

<213> Homo sapiens

<400> 211

Gly Arg Pro Thr Arg Pro Ser Gln Ala Thr Arg His Phe Leu Leu Gly
1 5 10 15

Thr Leu Phe Thr Asn Cys Leu Cys Gly Thr Phe Cys Phe Pro Cys Leu
20 25 30

Gly Cys Gln Val Ala Ala Asp Met Asn Glu Cys Cys Leu Cys Gly Thr
35 40 45

Ser Val Ala Met Arg Thr Leu Tyr Arg Thr Arg Tyr Gly Ile Pro Gly
50 55 60

Ser Ile Cys Asp Asp Tyr Met Ala Thr Leu Cys Cys Pro His Cys Thr
65 70 75 80

Leu Cys Gln Ile Lys Arg Asp Ile Asn Arg Arg Arg Ala Met Arg Thr
85 90 95

Phe

<210> 212

<211> 146

<212> PRT

<213> Homo sapiens

<400> 212

Ile Lys Asn Leu Ile Phe Phe Met Pro Ser Val Val Leu Lys His Ile
1 5 10 15

His His Ile Ser Val Ala Lys Asp Gly Glu Glu Leu Lys Leu Lys Arg
20 25 30

Cys Leu Leu Asn Phe Val Ala Ser Val Arg Ala Phe His His Gln Phe
35 40 45

Leu Glu Ser Thr His Gly Ser Pro Ser Val Asp Ile Ser Leu Asp Leu
50 55 60

Ala Lys Ser Thr Met Arg Thr Ala Lys Ser Cys His Ile Val Ile Thr
65 70 75 80

Asn Arg Ser Arg Asp Ala Ile Ser Gly Pro Val Glu Ser Pro His Cys
85 90 95

Asp Ala Cys Ser Thr Gln Thr Ala Phe Ile His Ile Ser Cys Asn Leu
100 105 110

Thr Pro Lys Ala Arg Glu Thr Lys Cys Ala Thr Glu Thr Ile Ser Lys
115 120 125

Gln Gly Ser Glu Gln Glu Met Ser Cys Gly Leu Gly Arg Thr Arg Gly
130 135 140

Ser Thr
145

<210> 213

<211> 23

<212> PRT

<213> Homo sapiens

<400> 213

Phe Leu Leu Gly Thr Leu Phe Thr Asn Cys Leu Cys Gly Thr Phe Cys
1 5 10 15

Phe Pro Cys Leu Gly Cys Gln
20

<210> 214

<211> 24

<212> PRT

<213> Homo sapiens

<400> 214

Ser Ile Cys Asp Asp Tyr Met Ala Thr Leu Cys Cys Pro His Cys Thr
1 5 10 15

Leu Cys Gln Ile Lys Arg Asp Ile
20

<210> 215

<211> 30
 <212> PRT
 <213> Homo sapiens

<400> 215
 Ser Val Val Leu Lys His Ile His His Ile Ser Val Ala Lys Asp Gly
 1 5 10 15

Glu Glu Leu Lys Leu Lys Arg Cys Leu Leu Asn Phe Val Ala
 20 25 30

<210> 216
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 216
 Asn Phe Val Ala Ser Val Arg Ala Phe His His Gln Phe Leu Glu Ser
 1 5 10 15

Thr His Gly Ser Pro Ser Val Asp Ile Ser
 20 25

<210> 217
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 217
 Thr Ala Phe Ile His Ile Ser Cys Asn Leu Thr Pro Lys Ala Arg Glu
 1 5 10 15

Thr Lys Cys Ala Thr Glu Thr Ile Ser Lys Gln Gly
 20 25

<210> 218
 <211> 6
 <212> PRT
 <213> Homo sapiens

<400> 218
 Met Lys Gly Glu Ile Glu
 1 5

<210> 219
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 219
 Glu Phe Gly Thr Ser Arg Gly Arg Gln His Arg Ala Leu Glu
 1 5 10

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<210> 220
 <211> 80
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (72)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 220
 His Gln Thr Pro Gly Val Thr Gly Leu Ser Ala Val Glu Met Asp Gln
 1 5 10 15
 Ile Thr Pro Ala Leu Trp Glu Ala Leu Ala Ile Asp Thr Leu Arg Lys
 20 25 30
 Leu Arg Ile Gly Thr Arg Arg Pro Arg Ile Arg Trp Gly Gln Glu Ala
 35 40 45
 His Val Pro Ala Gly Ala Ala Gln Glu Gly Pro Leu His Leu Leu Leu
 50 55 60
 Gln Arg Pro Ala Pro Trp Gly Xaa Ala Pro His Gly Lys Ala Cys Gly
 65 70 75 80

<210> 221
 <211> 87
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (39)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 221
 Gly Leu Gly Gln Gly Gly Gln Gly Leu Asp Gly Gly Arg Lys Leu Met
 1 5 10 15
 Tyr Leu Gln Glu Leu Pro Arg Arg Asp His Tyr Ile Phe Tyr Cys Lys
 20 25 30
 Asp Gln His His Gly Gly Xaa Leu His Met Gly Lys Leu Val Gly Arg
 35 40 45
 Asn Ser Asp Thr Asn Arg Glu Ala Leu Glu Glu Phe Lys Lys Leu Val
 50 55 60
 Gln Arg Lys Gly Leu Ser Glu Glu Asp Ile Phe Thr Pro Leu Gln Thr
 65 70 75 80
 Gly Ser Cys Val Pro Glu His
 85

105037-060503

<210> 222
 <211> 176
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (62)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (84)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (143)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (152)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 222
 Ser Gly Pro Ser Arg Leu Arg Thr Ser Leu Ser His Pro Val Ser Asp
 1 5 10 15
 Val Arg Ala Thr Ser Pro Pro Gly Arg Arg Gly Gln Pro Leu Leu Gly
 20 25 30
 Gly Gly Gln Ser Trp Gly Pro Gly Lys Arg Ala Ala Trp Ala Leu Ser
 35 40 45
 Thr Cys Gly Gly Trp Cys Thr Gly Val Gly Gly Gly Gly Xaa Trp Gly
 50 55 60
 Trp Glu Trp Gly Arg Gly Ser Gln Ala Leu Tyr Leu Pro Gly Ser Ser
 65 70 75 80
 Val Phe Arg Xaa Arg Ile Phe Phe Trp Met His Arg Ser Ser Leu Met
 85 90 95
 Lys Val Asn Val Ala Ser Asn Phe Pro Pro Pro Arg Ala Val Thr Phe
 100 105 110
 Thr Gly Asp Thr Phe Trp Ala Ser Cys Leu Arg Lys Val Leu Ser Thr
 115 120 125
 Thr Met Ala Phe Thr Tyr Gln Val Pro Val Ile Ser Ser Ser Xaa Arg
 130 135 140
 Val Lys Asp Arg Ala Ala Ala Xaa Pro Ser Val Thr Pro Arg Asn Arg
 145 150 155 160

146331-00506

Val Phe Ile Ser Arg Ala Leu Cys Cys Arg Pro Arg Leu Val Pro Asn
 165 170 175

<210> 223

<211> 103

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (92)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 223

Gly Leu Pro Glu Gly Arg Arg Asp Leu Val His Leu Asp Cys Gly Gln
 1 5 10 15

Ala Cys His Thr Arg Cys Leu Met Ser Gly Pro Pro Ala Pro Gln Glu
 20 25 30

Gly Glu Ala Ser Pro Ser Leu Glu Val Gly Arg Ala Gly Ala Leu Ala
 35 40 45

Lys Gly Gln Pro Gly His Ser Leu Pro Val Glu Ala Gly Ala Leu Gly
 50 55 60

Leu Ala Val Gly Glu Gly Gly Gly Xaa Gly Gly Gly Ala His Arg
 65 70 75 80

Arg Cys Ile Cys Gln Ala Pro Pro Ser Ser Ala Xaa Gly Phe Ser Ser
 85 90 95

Gly Cys Thr Asp Pro Pro Ser
 100

<210> 224

<211> 30

<212> PRT

<213> Homo sapiens

<400> 224

Val Glu Met Asp Gln Ile Thr Pro Ala Leu Trp Glu Ala Leu Ala Ile
 1 5 10 15

Asp Thr Leu Arg Lys Leu Arg Ile Gly Thr Arg Arg Pro Arg
 20 25 30

<210> 225
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 225
 Arg Lys Leu Met Tyr Leu Gln Glu Leu Pro Arg Arg Asp His Tyr Ile
 1 5 10 15

Phe Tyr Cys Lys Asp Gln His
 20

<210> 226
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 226
 Glu Ala Leu Glu Glu Phe Lys Lys Leu Val Gln Arg Lys Gly Leu Ser
 1 5 10 15

Glu Glu Asp Ile Phe Thr Pro
 20

<210> 227
 <211> 27
 <212> PRT
 <213> Homo sapiens

<400> 227
 Arg Ala Thr Ser Pro Pro Gly Arg Arg Gly Gln Pro Leu Leu Gly Gly
 1 5 10 15

Gly Gln Ser Trp Gly Pro Gly Lys Arg Ala Ala
 20 25

<210> 228
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 228
 Phe Phe Trp Met His Arg Ser Ser Leu Met Lys Val Asn Val Ala Ser
 1 5 10 15

Asn Phe Pro Pro Pro Arg Ala Val Thr Phe Thr Gly Asp
 20 25

<210> 229
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 229

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Cys Leu Met Ser Gly Pro Pro Ala Pro Gln Glu Gly Glu Ala Ser Pro
1 5 10 15

Ser Leu Glu Val Gly Arg Ala Gly Ala Leu Ala Lys
20 25

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